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ELASTIC SEALANTS AND ADHESIVES,
POLYURETHANE FOAMS
AND CHEMICAL ANCHORS

SEALING

BONDING

FIXING

FILLING

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SEALANTS
Acrylic and bitumen sealants
Hybrid sealants
Polyurethane and epoxy-polyurethane sealants
Acetic silicone sealants
Neutral silicone sealants

ADHESIVES
Hybrid adhesives
Polyurethane adhesives
Acrylic adhesives
PVC adhesives

CHEMICAL ANCHORS
Polyester resins
Vinylester resins
Epoxy resins

POLYURETHANE FOAMS
Multi-purpose
For roofs
Fire-proof (o Fire resistant)
Adhesive

PRIMERS, ACCESSORIES AND TOOLS FOR SEALANTS, CHEMICAL ANCHORS AND POLYURETHANE FOAMS

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SEALING

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PRIMERS, ACCESSORIES AND TOOLS FOR SEALANTS, CHEMICAL ANCHORS AND POLYURETHANE FOAMS

Sealants

Elastic seals

Constructions are made from materials of various nature, such as concrete, bricks, mortar, wood, glass, plastic, etc., and each material is characterised by rates of expansion and contraction that can sometimes differ quite significantly. In order to allow building materials to deform when exposed to temperature variations and humidity, or if subject to deformation when under load, it is necessary to include breaks during the design stage: joints. To prevent ingress of water, dust, heat, cold and noise, the joints must be sealed with suitable material with a plastic behaviour that is also compatible with the different types of material and other service conditions (mechanical, chemical and thermal). This is why Mapei has developed an extensive range of sealants made from various types of polymer, each one characterised by specific performance characteristics in terms of elasticity and resistance to stresses and loads, with the aim of supplying attractive, durable solutions for sealing joints in the building industry.

SEALING

Mapeflex AC2

DESCRIPTION

Paintable acrylic sealant

Sealing fillet joints in building work on different materials such as render, bricks, cement, stones and gypsum plasterboard, wood and concrete panels.

APPLICATION

Remove all loose parts from the surfaces to be sealed. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio. For high stresses, impregnate the edges of the joint with a primer made from **Mapeflex AC2** dissolved in water. Do not apply the product if it is about to rain, it is no suitable for wet joints.

BENEFITS

- **Paintable**
- Easy to apply
- Water-based, no solvent

CHARACTERISTICS

- **Consumption:** 3.1 meters per 310 ml cartridge (10x10 mm section)
- **Skin formation time:** 10 min. (+23°C, 50% UR)
- **Movement in service:** 10%
- **Shore A hardness:** 25
- **Storage:** 24 months at +5°C /+25°C

PACKAGING

Cartridges: 12 x 310 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

COLOUR

white

grey

CERTIFICATIONS

CE
EN 15651

Mapeflex AC4

DESCRIPTION

Paintable acrylic sealant

Sealing fillets between absorbent materials such as plasterboard, render, wood and bricks; ideal for sealing joints, cracks and slits subject to small movements and for sealing joints for thermal insulation.

APPLICATION

Remove all loose parts from the surfaces to be sealed. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio.
For high stresses, impregnate the edges of the joint with a primer made from **Mapeflex AC4** dissolved in water.
Do not apply the product if it is about to rain, it is not suitable for wet joints.

BENEFITS

- **Paintable**
- Easy to apply
- Water-based, no solvents
- Compatible with damp substrates
- **Flexible**

CHARACTERISTICS

- **Consumption:** 3.1 meters per 310 ml cartridge (10x10 mm section); 5.5 meters per 550 ml soft-cartridge (10x10 mm section)
- **Skin formation time:** 10 min. (+23°C, 50% RH)
- **Movement in service:** 12,5%
- **Modulus of elasticity:** 0.20 N/mm² (at 50% elongation)
- **Shore A hardness:** 10
- **Storage:** 24 months at +5°C/+25°C

COLOUR

white

grey

CERTIFICATIONS

CE EN 15651

GEV-EMICODE EC 1 PLUS Very low emission

PACKAGING

Cartridges: 12 x 310 ml
Soft-cartridges: 20 x 550 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric
Mapei Gun 600 PRO
Mapei Gun 600 PRO Electric

Mapeflex AC-FR

DESCRIPTION

Acrylic paintable sealant for fire-break joints, certified EN 13501-2

Sealing internal and external expansion joints subject to small movements in civil and industrial buildings subject to the risk of fire. Particularly ideal for perimeter sealing of fire doors, compartmentation and the isolation of deposits of flammable substances, boiler rooms, electrical substations, technical volumes, galleries, public places and community facilities like hotels, schools, hospitals, restaurants.

APPLICATION

Remove all loose parts from the surfaces to be sealed. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio. For high stresses, impregnate the edges of the joint with a primer made from **Mapeflex AC-FR** dissolved in water.
Do not apply the product if it is about to rain, it is not suitable for wet joints.

BENEFITS

- **Resistent to heat, flames and smoke (resistance class EI) for up to 212 minutes**
- No surface protection required
- Water, air and dust-tight seal at normal temperatures
- Blocks the passage of flames, smoke and heat in the case of fire
- Paintable

CHARACTERISTICS

- **Consumption:** 5.5 meters per 550 ml soft-cartridge (10x10 mm section)
- **Skin formation time:** 10 min. (+23°C, 50% RH)
- **Allowed maximum movement in operation:** 12,5%
- **Modulus of elasticity:** 0.12 N/mm² (at 50% elongation)
- **Shore A hardness:** 25
- **Storage:** 12 months at +5°C/+25°C

COLOUR

grey

CERTIFICATIONS

CE EN 15651

GEV-EMICODE EC 1 Very low emission

EN 1366-4

PACKAGING

Soft-cartridges: 20 x 550 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 600 PRO
Mapei Gun 600 PRO Electric

Mapeflex AC-P

DESCRIPTION

Paintable acrylic sealant with a "render-effect" finish

Sealing internal and external joints and cracks subject to small and medium movements, for all absorbent building materials. Its rough surface finish helps to hide the sealed joint more easily when applied on render, concrete and natural brickwork.

APPLICATION

Remove all loose parts from the surfaces to be sealed. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio. For high stresses, impregnate the edges of the joint with a primer made from **Mapeflex AC-P** dissolved in water. Do not apply the product if it is about to rain, it is not suitable for wet joints

BENEFITS

- **Rough surface to simulate the surface of the render**
- Paintable
- Easy to apply
- Water-based, no solvents
- Compatible with damp substrates

CHARACTERISTICS

- **Consumption:** 3.1 meters per 310 ml cartridge (10x10 mm section)
- **Skin formation time:** 15 min. (+23°C, 50% RH)
- **Allowed maximum movement in operation:** 12,5%
- **Modulus of elasticity:** 0.11 N/mm² (at 50% elongation)
- **Shore A hardness:** 15
- **Storage:** 24 months at +5°C/+25°C

COLOUR

white

CERTIFICATIONS

CE EN 15651

GEV-EMICODE EC 1 PLUS very low emission

PACKAGING

Cartridges: 12 x 310 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

Mapeflex Blackfill

DESCRIPTION

Bitumen sealant

Non-hardening sealant for sealing and blending in new and old bitumen membranes, construction elements on roofs and flat roofs and for immediate waterproof seals and for application on damp substrates.

APPLICATION

Extrude the product into the area to be sealed and smooth over with a trowel. When forming fillet seals between different materials, extrude enough product and use a metal spatula to form a continuous strip to overlap the joint. To make it easier to finish off the surface of the sealant, the metal trowel may be heated up.

BENEFITS

- **Compatible with bitumen substrates**
- **Immediately waterproof after laying**
- Compatible with damp substrates
- Bonds to a multitude of surfaces
- Remains plastic

CHARACTERISTICS

- **Consumption:** 3.0 meters per 300 ml cartridge (10x10 mm section)
- **Skin formation time:** 10 min.
- **Elongation at failure:** 65%
- **Storage:** 18 months at +5°C/+25°C

COLOUR

black

PACKAGING

Cartridges: 12 x 300 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

Mapeflex Firestop 1200°C

DESCRIPTION

Refractory grout

Rigid grout for chimneys, furnaces, radiators, barbecues, flues and fire-break walls.
Ideal for pointing joints between refractory bricks and for laying purposes. Specifically made for rigidly blending and filling voids and gaps in pre-manufactured elements in contact with flames or at working temperatures up to 1200°C.

APPLICATION

Surfaces to be bonded or sealed must be dry and free of loose parts and substance which could impede bonding, such as oil, stripping compounds and traces of surface rust.
When pointing refractory bricks on new and old elements, extrude the sealant into the joint to form a section at least 5x5 mm. Smooth over the sealant immediately after extrusion.
When laying refractory bricks, extrude several beads of the product on the lower brick, lay on the upper brick and press it down on the beads while they are still fresh. When the brick has been pressed down, 100% of the bonding surface must be buttered. Remove any excess product immediately after laying the brick. Leave the product to dry at room temperature for at least 24-72 hours before slowly bringing the sealed element or structure up to working temperature.

BENEFITS

- **Resistant up to 1200°C**
- For new manufactured elements and maintenance work on old manufactured elements
- Available in grey
- Rapid drying
- Odourless

CHARACTERISTICS

- **Consumption:** 3.0 meters per 300 ml cartridge (10x10 mm section)
- **Skin formation time:** 6 min. (+23°C, 50% RH)
- **Final hardening time: :** 4 mm/24 h
- **Storage:** 12 months at +5°C/+25°C

COLOUR

grey

PACKAGING

Cartridges: 12 x 300 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

Mapeflex MS Crystal

DESCRIPTION

Elastic high modulus, crystal clear, hybrid sealant and adhesive

Forming elastic seals between similar and/or different materials normally used in the building industry. Ideal for sealing glass to glass or between substrates in contrasting colours without having to use sealant with a similar colour.

APPLICATION

When used as sealant. Remove all loose material from the surfaces to be sealed.
Apply **Primer FD** for heavy stresses when in service; apply **Primer P** on plastics.
Place masking tape along the edges of the joint to form a neater seal. For fillet joints, extrude the sealant, smooth over the surface and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord along the bottom of the joint to set the correct width/height ratio.
When used as elastic adhesive. Clean and de-grease the surfaces to be bonded. Extrude beads or spots of product every 15-20 cm and press the components to be bonded together. Temporary supports must be used for 24 hours when bonding heavy objects.

BENEFITS

- **Single product for bonding and sealing**
- Compatible with damp substrates
- **Crystal clear**
- Special nozzle to prevent waste
- Solvent-free
- No hazard or warning labels required

CHARACTERISTICS

- **Consumption:** 3.0 meters per 300 ml cartridge (10x10 mm section)
- **Skin formation time:** 35 min.
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,80 N/mm²
- **Shore A hardness:** 35
- **Storage:** 18 months

COLOUR

crystal clear

CERTIFICATIONS

CE EN 15651

GEV-EMICODE EC 1 PLUS very low emission

PACKAGING

Cartridges: 12 x 300 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

Mapeflex MS45

DESCRIPTION

Hybrid sealant and adhesive with a high modulus of elasticity

For flexible seals in internal and external expansion joints and for sealing joints in civil and industrial floors. Flexible bonding of building elements as an alternative to lightweight mechanical fasteners. Compatible with all absorbent mineral substrates, metal surfaces, painted surfaces, wood, brickwork, stone and many plastics. Paintable when completely hardened.

APPLICATION

When used as sealant. Remove all loose parts from the surfaces to be sealed. Use **Primer FD** for high stresses when in service, use **Primer P** on plastics. Use masking tape along the sides of the joint to get a better edge along the seal. For fillet joints, extrude and smooth over the surface of the sealant, and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio.
When used as flexible adhesive. Clean and de-grease the surfaces to be bonded. Extrude beads or spots of the product every 15-20 cm and press together the components to be bonded. Temporary supports must be used for 24 hours for heavy objects.

BENEFITS

- **Single product for flexible bonds and seals**
- High initial "sucker effect" for bonding on vertical surfaces and ceilings
- Paintable
- Excellent resistance to ageing and UV rays
- No hazard or warning labels required on the packaging
- Solvent-free, odourless
- **Compatible with damp environments**

CHARACTERISTICS

- **Consumption:** 3.0 meters per 300 ml cartridge (10x10 mm section)
- **Skin formation time:** 45 min.
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,66 N/mm²
- **Shore A hardness:** 43
- **Storage:** 15 months at 5°C/+25°C

COLOUR

113 grey | white* | brown* | black* | beige*

**Available in 300 ml cartridges only*

CERTIFICATIONS

CE EN 15651 | GEV-EMICODE EC 1 PLUS VERY LOW EMISSION

PACKAGING

Cartridges: 12 x 300 ml
Soft-cartridges: 20 x 600 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric
Mapei Gun 600 PRO
Mapei Gun 600 PRO Electric

Mapeflex PB25

DESCRIPTION

Two-component thixotropic polyurethane sealant with a low modulus of elasticity

Sealant for expansion and shrinkage joints in surfaces subject to possible contact with hydro-carbons, such as runways, courtyards, safety basins, garages, car-parks, service stations, hangars, roads, access ramps and industrial plant equipment. Also suitable for sealing basins, storage tanks and canals in permanent contact with water. Bonds to concrete after applying **Primer PU60**.

APPLICATION

Remove all loose parts from the surfaces to be sealed. Insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio, place masking tape along the edges of the joint, apply the primer on the sides of the joint and leave it to dry, mix the two pre-dosed components together, pour the sealant into the joint, smooth over the surface and immediately remove the masking tape.

BENEFITS

- Low modulus of elasticity to guarantee large deformations when under load
- **High resistance to hydro-carbons derived chemicals**
- Thixotropic consistency for application on vertical surfaces
- Pre-dosed two-component products

CHARACTERISTICS

- **Consumption:** 0.14 kg/metre (10x10 mm section)
- **Workability after mixing:** 30 min. (+23°C, 50% RH)
- **Set to traffic:** 24 hours
- **Movement in service:** 25%
- **Modulus of elasticity:** 0,30 N/mm²
- **Shore A hardness:** 20
- **Storage:** 24 months at +5°C/+25°C

COLOUR

black

PACKAGING

Drums: 10 kg (A+B)
Please refer to Technical Data Sheet before use.

Mapeflex PU20

DESCRIPTION

Two-component high flow epoxy-polyurethane sealant, high strength and chemical resistance

Sealing internal and external joints subject to small to medium movements when in service and high mechanical stress and chemical aggression, including in combination. Sealant with a high modulus of elasticity and high surface hardness, ideal for floors in car-parks, garages, courtyards, commercial areas, warehouses, storage areas and production areas. It bonds well to concrete, ceramic, wood and metal after applying a coat of **Primer EP** or **Primer MF**.

APPLICATION

Remove all loose parts from the surfaces to be sealed. Insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio, place masking tape along the edges of the joint, apply the primer on the sides of the joint and leave it to dry, mix the two pre-dosed components together, pour the sealant into the joint, smooth over the surface and immediately remove the masking tape.

PACKAGING

Drums: 10 kg (A+B)
Please refer to Technical Data Sheet before use.

BENEFITS

- **High strength resistance**
- **High chemical resistance**
- High flow, quick and easy application on floors
- Pre-dosed two-component products
- Paintable
- It can be sanded down

CHARACTERISTICS

- **Consumption:** 0.14 kg/metre (10x10 mm section)
- **Workability after mixing:** 45 min. (+23°C, 50% RH)
- **Set to traffic:** 24-36 h
- **Movement in service:** 10%
- **Shore A hardness:** 50
- **Storage:** 24 months at +5°C/+25°C

COLOUR

113 grey

Mapeflex PU21

DESCRIPTION

Two-component high flow epoxy-polyurethane sealant, high strength resistance

Sealing internal and external joints subject to small movements when in service and high mechanical stress and intense vehicle traffic. Sealant with a high modulus of elasticity and high surface hardness, ideal for internal joints subject to the frequent passage of low-speed heavy-goods vehicles, such as covered car-parks, supermarkets, commercial areas, warehouses, storage areas and production areas. Also suitable for making shells on floor/wall fillet joints. It bonds well to concrete, ceramic, wood and metal after applying a coat of **Primer EP** or **Primer MF**.

APPLICATION

Remove all loose parts from the surfaces to be sealed. Insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio, place masking tape along the edges of the joint, apply the primer on the sides of the joint and leave it to dry, mix the two pre-dosed components together, pour the sealant into the joint, smooth over the surface and immediately remove the masking tape.

PACKAGING

Drums: 5 kg and 10 kg (A+B)
Please refer to Technical Data Sheet before use.

BENEFITS

- **High strength resistance**
- Good chemical resistance
- High flow, quick and easy application on floors
- Pre-dosed two-component products
- Paintable
- It can be sanded down

CHARACTERISTICS

- **Consumption:** 0.15 kg/metre (10x10 mm section)
- **Workability after mixing:** 45 min. (+23°C, 50% RH)
- **Set to traffic:** 24-36 hours
- **Movement in service:** 5%
- **Shore A hardness:** 65
- **Storage:** 24 months at +5°C/+25°C

COLOUR

113 grey

Mapeflex PU30

DESCRIPTION

Two-component thixotropic epoxy-polyurethane sealant, high strength and chemical resistance

Sealing internal and external joints subject to small to medium movements when in service and high mechanical stress and chemical aggression, including in combination. Sealant with a high modulus of elasticity and high surface hardness, ideal for vertical and horizontal joints in car-parks, garages, courtyards, commercial areas, warehouses, storage areas and production areas. It bonds well to concrete, ceramic, wood and metal after applying a coat of **Primer EP** or **Primer MF**.

APPLICATION

Remove all loose parts from the surfaces to be sealed. Insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/ height ratio, place masking tape along the edges of the joint, apply the primer on the sides of the joint and leave it to dry, mix the two pre-dosed components together, fill the joint with sealant using a trowel, smooth over the surface and immediately remove the masking tape.

BENEFITS

- **High strength resistance**
- **High chemical resistance**
- Thixotropic consistency for application on vertical surfaces
- Pre-dosed two-component products
- Paintable
- It can be sanded down

CHARACTERISTICS

- **Consumption:** 0.15 kg/metre (10x10 mm section)
- **Workability after mixing:** 35 min. (+23°C, 50% RH)
- **Set to traffic:** 24-36 hours
- **Movement in service:** 10%
- **Shore A hardness:** 65
- **Storage:** 24 moths at +5°C/+25°C

COLOUR

113 grey

CERTIFICATIONS

CE EN 15651

PACKAGING

Drums: 5 kg and 10 kg (A+B)
Please refer to Technical Data Sheet before use.

Mapeflex PU35 CR

DESCRIPTION

One-component elastic polyurethane sealant resistant to chemicals, also suitable for cleanrooms

Sealing joints in industrial environments where there could be a combination of mechanical stress and the presence of chemicals. Ideal for sterile rooms and cleanrooms. Adheres to metal substrates after treating them with **Primer M**; for absorbent substrates use **Primer A**.

APPLICATION

Remove all loose parts from the surfaces to be sealed. Insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/ height ratio, place masking tape along the edges of the joint, apply the primer on the sides of the joint and leave it to dry, mix the two pre-dosed components together, fill the joint with sealant using a trowel, smooth over the surface and immediately remove the masking tape.

BENEFITS

- High modulus of elasticity with high deformability
- Thixotropic consistency for application on vertical surfaces
- **High chemical resistance**
- Very low certified enviromental emission
- Paintable

CHARACTERISTICS

- **Consumption:** 6.0 meters per 600 ml cartridge (10x10 section)
- **Skin formation time:** 90 min
- **Movement in service:** 20% (without primer) 25% (with **Primer A** or **Primer M**),
- **Modulus of elasticity:** 0,8 N/mm²
- **Shore A hardness:** 36
- **Storage:** 12 months

COLOUR

113 grey

CERTIFICATIONS

EN 14187-4
EN 14187-6

PACKAGING

Soft-cartridges: 20 x 600 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 600 PRO
Mapei Gun 600 PRO Electric

Mapeflex PU40

DESCRIPTION

Polyurethane sealant with a low modulus of elasticity

Sealing flexible expansion and fillet joints on pre-fabricated buildings, traditional and ventilated façades and cracks. Compatible with all absorbent mineral substrates, metal surfaces, painted surfaces, wood, stone, brickwork and glass. Paintable after complete polymerisation.

APPLICATION

Remove all loose parts from the surfaces to be sealed. Apply **Primer M** or **Primer A** and leave it to dry. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert Mapefoam foam filler cord in the bottom of the joint to gauge the correct width/height ratio.

BENEFITS

- Paintable
- **Low modulus of elasticity to avoid detachment from the edges of joints**
- Highly flexible even at low temperatures

CHARACTERISTICS

- **Consumption:** 3.0 meters per 300 ml cartridge; 6.0 meters per 600 ml soft-cartridge (10x10 mm section)
- **Skin formation time:** 3 hours (+23°C, 50% RH)
- **Movement in service:** 25%
- **Modulus of elasticity at +23°C:** 0,24 N/mm²
- **Modulus of elasticity at -30°C:** 0,31 N/mm²
- **Shore A hardness:** 27
- **Storage:** 12 months at +5°C/+25°C

COLOUR

white | 111 grey | 112 grey

CERTIFICATIONS

CE EN 15651

PACKAGING

Cartridges: 12 x 300 ml
Soft-cartridges: 20 x 600 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric
Mapei Gun 600 PRO
Mapei Gun 600 PRO Electric

Mapeflex PU 45 FT

DESCRIPTION

Universal polyurethane sealant and adhesive with a high modulus of elasticity

Flexible sealing of internal and external expansion and fillet joints, sealing civil and industrial floor joints and flexible bonding of construction features instead of using screws, nails and lightweight fittings. Compatible with all absorbent mineral substrates, metal surfaces, painted surfaces, wood, brickwork and glass. It can be painted over after complete polymerisation.

APPLICATION

When used as sealant. Remove all loose parts from the surfaces to be sealed. Use **Primer M** or **Primer A** for high stresses when in service. Use **Primer P** on plastics. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio.
When used as flexible adhesive. Clean and de-grease the surfaces to be bonded. Extrude beads or spots of the product every 15-20 cm and press together the components to be bonded. Temporary supports must be used for 24 hours for heavy objects.

BENEFITS

- **Single product for flexible bonds and seals**
- High resistance to traffic
- High sucker effect for bonding on vertical surfaces and ceilings
- Paintable
- High bond strength even without primer
- Solvent free and odourless

CHARACTERISTICS

- **Consumption:** 3.0 meters per 300 ml cartridge, 6.0 meters per 600 ml soft-cartridge (10x10 mm section)
- **Skin formation time:** 90' (+23°C, 50% RH)
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,80 N/mm²
- **Shore A hardness:** 38
- **Storage:** 12 months at +5°C/+25°C

COLOUR

white | 111 grey | 113 grey
black | beige* | brown*

Available in 300 ml cartridges only

CERTIFICATIONS

CE EN 15651 | Fast Track Ready

PACKAGING

Cartridges: 12 x 300 ml
Soft-cartridges: 20 x 600 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric
Mapei Gun 600 PRO
Mapei Gun 600 PRO Electric

Mapeflex PU50 SL

DESCRIPTION

High flow polyhuretane sealant with a low modulus of elasticity

Flexible sealing of internal and external horizontal expansion and fillet joints, sealing civil and industrial floor joints, shopping centres, car-parks and runways subject to large movements in service and with a slope of up to 2%. Compatible with all absorbent mineral substrates, metal surfaces, painted surfaces, wood, stone, brickwork glass and ceramic. Paintable after complete polymerisation.

APPLICATION

Remove all loose parts from the surfaces to be sealed. Insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio, put masking tape along the edges of the joint, apply **Primer M** or **Primer A** and leave it to dry. Pour the sealant into the joint and smooth over the surface and immediately remove the masking tape.

BENEFITS

- **High flow, quick and easy application on floors**
- Low modulus of elasticity to avoid detachment from the edges of joints
- Paintable
- High bond strength even without primer
- Highly flexible even at low temperatures
- One-component product

CHARACTERISTICS

- **Consumption:** 6.0 meters per 600 ml cartridge (10x10 mm section)
- **Skin formation time:** 2 hours (+23°C, 50% RH)
- **Movement in service:** 25%
- **Modulus of elasticity:** 0,25 N/mm²
- **Shore A hardness:** 22
- **Storage:** 12 months at +5°C/+25°C

COLOUR

111 grey

CERTIFICATIONS

CE EN 15651

PACKAGING

Soft-cartridges: 20 x 600 ml
Drums: 12 kg
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 600 PRO
Mapei Gun 600 PRO Electric

Mapeflex PU65

DESCRIPTION

High modulus two-component polyhurethane sealant for road joints

Sealing joints flush with the road surface subject to high mechanical stress and intense vehicle traffic. May be used as it is (components A+B) or mixed with **Quartz 0.5** up to 1:1 by weight (A+B+C). Use **Primer PU60** to help the sealant adhere more strongly along the sides of the joint.

APPLICATION

Remove all loose parts from the surfaces to be sealed. Mix the two pre-dosed components together, add **Quartz 0.5** up to 1:1 by weight if required and pour the sealant into the joint without waiting. The product sets to traffic after approximately 1 hour. Add **Mapeflex PU65 Catalyst** to accelerate setting/hardening.

BENEFITS

- Very high modulus of elasticity and surface hardness
- For both large and small volumes
- High resistance to rolling friction
- **Quick set to traffic**
- Competitive price

CHARACTERISTICS

- **Consumption:** 1.2 kg/litre (A+B) without sand, 1.6 kg/litre (A+B+C) with Quartz 0.5 at 1:1 by weight
- **Skin formation time:** 15 min. (+23°C, 50% RH)
- **Set to traffic:** 2-3 hours
- **Complete hardening:** 24 hours
- **Shore A hardness:** 80 (A+B) without sand, 90 (A+B+C) with Quartz 0.5 at 1:1 by weight
- **Elongation at failure:** 250% (A+B) without sand, 85% (A+B+C) with Quartz 0.5 at 1:1 by weight
- **Storage:** 12 months at +5°C/+25°C

COLOUR

black

PACKAGING

Drums: 10 kg (A+B)
Please refer to Technical Data Sheet before use.

Mapeflex PU70 SL

DESCRIPTION

Two-component, freeflowing elastic polyurethane sealant resistant to hydrocarbons, with a low modulus of elasticity

Sealant for expansion and shrinkage joints in surfaces subject to accidental or intermittent contact with oil, fuel, petrol, lubricants and de-icing substances. Bonds to concrete after applying **Primer PU60** or **Primer M**.

APPLICATION

Remove all loose parts from the surfaces to be sealed. Insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio, put masking tape along the edges of the joint, apply **Primer M** or **Primer A** and leave it to dry. Pour the sealant into the joint and smooth over the surface and immediately remove the masking tape.

BENEFITS

- High flow
- Low modulus of elasticity
- **Certified for use in airports**
- High resistance to hydro-carbons
- Rapid

CHARACTERISTICS

- **Consumption:** 0.15 kg/metre (10x10 mm section)
- **Workability after mixing:** 45 min.
- **Set to traffic:** 24 hours
- **Movement in service:** 25%
- **Modulus of elasticity:** 0,3 N/mm²
- **Shore A hardness:** 18
- **Storage:** 12 months

PACKAGING

Drums: 10 kg (A+B)
Please refer to Technical Data Sheet before use.

COLOUR

black

CERTIFICATIONS

Fed. Spec. SS-S-200-E
BS 5212

Mapesil 300°C

DESCRIPTION

Acetic silicone sealant for high temperatures

Flexible seals on substrates with working temperatures up to +300°C, fillet joints on flues, hot pipe-work, air conditioning conduits, civil and industrial furnaces and boilers, and for seals on external motors mounted on heaters and boilers.

APPLICATION

Remove all loose parts and degrease the surfaces to be sealed. Use **Primer FD** on absorbent mineral substrates, such as concrete, render and brickwork.
Use masking tape along the sides of the joint to get a better edge along the seal.
For fillet joints, extrude and smooth over the surface of the sealant, and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio. Application and polymerisation of **Mapesil 300°C** must take place at room temperature until the section of sealant completely hardens. Only when hardened it may come into contact with high temperatures. Mapesil 300°C is not suitable for direct contact with flames: in such cases, use **Mapeflex Firestop 1200°C** or **Mapeflex AC-FR**.

BENEFITS

- **Resistant to high working temperatures, to thermal shock and fumes**
- Resistant to oils, lubricants, fuels, acid and alkaline environments
- Improves the draw of flues
- Remains flexible for construction, industrial and motoring applications

CHARACTERISTICS

- **Consumption:** 3 meters per 300 ml cartridge (10x10 mm section)
- **Skin formation time:** 6 min. (+23°C, 50% RH)
- **Hardening time:** 4 mm/24 h
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,60 N/mm²
- **Shore A hardness:** 20
- **Storage:** 18 months at +5°C/+25°C

PACKAGING

Cartridges: 12 x 300 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

COLOUR

black

CERTIFICATIONS

GEV-EMICODE EC 1 very low emission

Mapesil AC

DESCRIPTION

Pure, mould-resistant, acetic, silicone sealant for ceramic tiles, sanitary wares and swimming pools, with Bioblock® technology

Sealing flexible fillet joints in ceramic, sanitary wares, glass and painted surfaces. Ideal for floor joints, ceramic coatings, swimming pools and damp environments.

APPLICATION

Remove all loose parts from the surfaces to be sealed. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio. Apply **Primer FD** on absorbent materials (wood, concrete), metal, plastic and rubber.

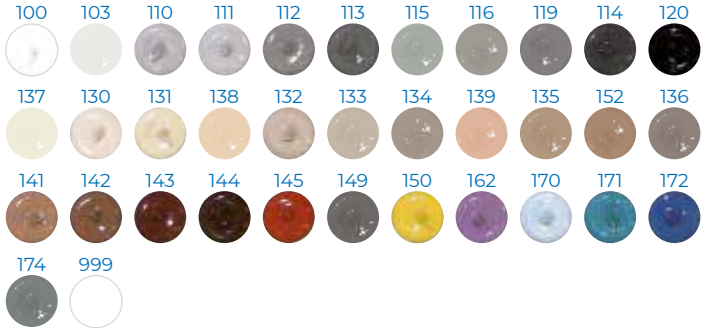
BENEFITS

- **Pure silicone with no solvents**
- Low modulus of elasticity
- **34 colours coordinated with the "MAPEI coloured grouts" range and transparent**
- Resistant to mould
- High strength, high thermal and chemical resistance
- Permanent flexibility between -40° C and +100° C

CHARACTERISTICS

- **Consumption:** 3.1 meters per 310 ml cartridge (10x10 mm section)
- **Skin formation time:** 10' (+23°C, 50% UR)
- **Movement in service:** 25%
- **Modulus of elasticity:** 0,35 N/mm²
- **Shore A hardness:** 20
- **Storage:** 24 months at +5°C/+25°C

COLOUR 34 + trasparent



PACKAGING

Cartridges: 12 x 310 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

CERTIFICATIONS

CE EN 15651 · GEV-EMICODE EC 1 PLUS very low emission · Bioblock

Mapesil BM

DESCRIPTION

Neutral silicon sealant for metalwork

Flexible sealing and bonding of construction features on roofs, flat-roofs and in metalwork, such as drainpipes, guttering, flashing and covering sheets. The product is also ideal for general metallic structures, such as silos, containers, aeration channels and metallic coatings. Sealing and bonding metallic surfaces, such as copper, steel, zinc-plated sheet, pre-painted sheet and aluminium.
Also perfectly compatible with building products, such as render, concrete, wood, bricks and glass. The product is also ideal for polycarbonate (transparent).

APPLICATION

Carefully clean and de-grease the surfaces to be bonded. When sealing new metal-work, extrude a bead of sealant along the end of the lower sheet, overlap the upper sheet and rivet the two sheets together to press the bead of sealant while it is still fresh. Seal the overlap and the heads of the rivets with a layer of sealant several millimetres thick to guarantee the joint is perfectly water-tight. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio.

BENEFITS

- Excellent resistance to inclement weather and ageing
- Quick polymerisation
- **High resistance to temperature variations**
- Excellent bond without primer
- Low modulus of elasticity
- Neutral cross-linking, no unpleasant odour

CHARACTERISTICS

- **Consumption:** 3.1 meters per 310 ml cartridge (10x10 mm section)
- **Skin formation time:** 15 min. (+23°C, 50% RH)
- **Movement in service:** 25%
- **Modulus of elasticity:** 0,35 N/mm²
- **Shore A hardness:** 25
- **Storage:** 12 months at +5°C/+25°C

COLOUR transparent · grey · copper · dark brown

PACKAGING

Cartridges: 12 x 310 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

CERTIFICATIONS

CE EN 15651 · GEV-EMICODE EC 1 PLUS very low emission

Mapesil GP

DESCRIPTION

Neutral mould-resistant silicone sealant dor the building industry

Elastic seals around construction features on roofs and façades such as sheet metal roofing, guttering and downpipes, sandwich panels, window and door fittings and façades exposed to wind and the surrounding weather conditions. Ideal also for fillet seals between different materials in damp environments such as kitchens, bathrooms and changing rooms and for sealing tiled flooring. Ideal for use on absorbent or compact materials both internally and externally.

APPLICATION

Remove all loose material from the edges of the joint and insert a length of **Mapefoam** foam filler cord along the bottom of the joint to prevent sealant adhering to the bottom and to calibrate the correct width/depth ratio. Place masking tape along the edges of the joint to get a perfect finish, extrude the sealant into the joint without entraining air and smooth over the surface of the sealant. Remove the masking tape immediately after application.

BENEFITS

- Good resistance to weathering
- Withstands temperature variations
- Neutral curing, no unpleasant odours
- **Compatible with most building materials***
- Mould-resistant

**for plastics, contact the MAPEI Technical Services Department*

CHARACTERISTICS

- **Consumption:** 2.8 metres per 280 ml cartridge (10x10 mm section)
- **Skin formation time:** 35 min
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,37 N/mm²
- **Shore A hardness:** 24
- **Storage:** 18 months at +5°C/+25°C

COLOUR

transparent, white, grey -white, grey, copper, dark brown

CERTIFICATIONS

CE EN 15651 · GEV-EMICODE EC 1 PLUS very low emission

PACKAGING

Cartridges: 12 x 280 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

Mapesil LM

DESCRIPTION

Neutral mould-resistant silicon sealant for stone material, with Bioblock® technology

Flexible seals in expansion joints and fillet joints on façades and in internal and external coatings in natural stone or sensitive to staining. It is also suitable for damp environments and swimming pools.

APPLICATION

Remove all loose parts from the surfaces to be sealed. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio.

BENEFITS

- **Does not stain stone surfaces, according to ASTM C 1248**
- High bond strength with no primer on a wide range of substrates
- Excellent resistance to inclement weather, ageing and mould
- Low modulus of elasticity
- Large range of colours available
- Neutral cross-linking, no unpleasant odour

CHARACTERISTICS

- **Consumption:** 3.1 meters per 310 ml cartridge (10x10 mm section)
- **Skin formation time:** 15 min. (+23°C, 50% RH)
- **Movement in service:** 25%
- **Modulus of elasticity:** 0,35 N/mm²
- **Shore A hardness:** 21
- **Storage:** 18 months at +5°C/+25°C

COLOUR

100, 110, 111, 112, 113, 114, 120, 130, 132, 999

CERTIFICATIONS

CE EN 15651 · GEV-EMICODE EC 1 PLUS very low emission · Bioblock · ASTM C1248

PACKAGING

Cartridges: 12 x 310 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

Mapesil U

DESCRIPTION

Multi purpose mould-resistant acetic silicone sealant

Sealing fillet joints between all types of building materials made of glass, ceramic, stainless steel and certain types of plastic.

APPLICATION

Remove all loose parts from the surfaces to be sealed. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio. Apply **Primer FD** on absorbent materials (wood, concrete), metal, plastic and rubber.

BENEFITS

- Resistant to mould
- **Easy to extrude and smooth over**
- Rapid

CHARACTERISTICS

- **Consumption:** 2.8 meters per 280 ml cartridge (10x10 mm section)
- **Skin formation time:** 20 min. +23°C, 50% RH)
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,36 N/mm²
- **Shore A hardness:** 18
- **Storage:** 18 months

PACKAGING

Cartridges: 24 x 280 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

COLOUR

transparent

white

CERTIFICATIONS

CE EN 15651

Mapesil Z Plus

DESCRIPTION

Mould-resistant acetic silicone sealant for sanitary wares

Flexible sealing of fillet joints between sanitary wares and ceramic, shower booths, Jacuzzis, wash-basins, sinks, greenhouses, laundry rooms and damp environments in general.

APPLICATION

Remove all loose parts from the surfaces to be sealed. For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio. Apply **Primer FD** on absorbent materials (wood, concrete), metal, plastic and rubber.

BENEFITS

- Resistant to mould
- Excellent bond on glass, ceramic, painted surfaces and certain types of plastic
- **Permanent flexibility between -40°C and +100°C**
- Excellent resistance to ageing

CHARACTERISTICS

- **Consumption:** 2.8 meters per 280 ml cartridge (10x10 mm section)
- **Skin formation time:** 25 min (+23°C, 50% RH)
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,36 N/mm²
- **Shore A hardness:** 18
- **Storage:** 18 months at +5°C/+25°C

PACKAGING

Cartridges: 12 x 280 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

COLOUR

transparent

white

111 grey

113 grey

130 jasmine

CERTIFICATIONS

CE EN 15651

GEV-EMICODE EC 1 PLUS Very Low Emission

Mapetape

DESCRIPTION

Self-adhesive sealing tape

Cold-applied, self-adhesive bituminous tape sandwiched to a thin metal strip (pre-painted aluminium or bright copper) for sealing and waterproofing gaps, cracks and joints in roofs and flat roofs, old bitumen membranes, tinwork, sandwich panels, insulating panels, skylights and chimneys where rainwater could seep through.

APPLICATION

Remove all loose material from the substrate and any traces of water from flat roofs. If the temperature is lower than +5°C, heat the tape with a blower. Cut the tape to suit the shape of the area to be sealed. Remove the silicone backing from the tape, place the tape over the joint and press and flatten the tape with a roller. Overlap the edges of adjacent pieces of tape by 5 cm.

BENEFITS

- **Easy to apply, even around complicated shapes**
- Immediate waterproofing after application
- Simple, no-nonsense application, no special tools or skills required
- Resistant to tear, bad weather and temperature variations
- Coloured finish, blends in with the colour of the roof

CHARACTERISTICS

- **Consumption:** in metres
- **In-service temperature range:** -20°/+80°C (-20°C/+65°C if applied on surfaces with a slope of more 45°)
- **Application temperature range:** +5°C/+45°C
- **Elongation at failure:** > 20% (copper finish > 10%)
- **Storage:** 24 months at +5°C/+30°C

PACKAGING

Please refer to Technical Data Sheet before use.

Colour	Width of tape	Length of tape	N° of rolls per box	Metres per box
Aluminium	50 mm	10 m	n° 6	60 m
	100 mm		n° 3	30 m
	150 mm		n° 2	20 m
	200 mm		n° 3	30 m
Lead	50 mm	10 m	n° 6	60 m
	100 mm		n° 3	30 m
	150 mm		n° 2	20 m
	200 mm		n° 3	30 m
Copper	100 mm	10 m	n° 3	30 m
	150 mm		n° 2	20 m
	200 mm		n° 3	30 m

Adhesives

Joined forever

To join two or more building components together in a simple and durable manner, including materials of a different nature, the chemical bonding technique offers numerous advantages, whether it is a rigid joint or a deformable joint. Chemical bonds are very easy to execute, there is no need to drill holes, no mechanical fasteners are required, they are compatible with the most widely used materials, they can compensate for different degrees of flatness, they absorb differential movements, they bond and waterproof in a single operation, they improve stress distribution, they are more attractive, they are very quick to carry out and they remain highly effective over time.
Mapei adhesives are designed for bonding both finished features and structural elements, both internally and externally, and are available in different polymer formulates in order to satisfy all the most common bonding needs on site and during production.

Adesilex PVC

DESCRIPTION

Adhesive for bonding plastic pipes not under pressure

Bonding PVC pipes for drainage systems guttering and plastic pipes in general with no internal pressure.

APPLICATION

The surfaces to be bonded must be dry and clean. Lightly sand the surfaces if necessary. The adhesive is easy to extrude from its tube onto the surfaces to be bonded (using a slight rotational movement). The surfaces will bond immediately but we recommend waiting a few hours prior to use.

BENEFITS

- Maximum service temperature +60°C with spikes up to +90°C
- Does not drip, including in small diameter pipes

CHARACTERISTICS

- **Storage:** 18 months a +5°/+25°C

PACKAGING

Tubes: 50 x 125 g
Please refer to Technical Data Sheet before use.

COLOUR transparent

CERTIFICATIONS EN 14680

Adesilex PVC HP

DESCRIPTION

Adhesive for welding high and low-pressure pipes

Bonding high pressure and low-pressure PVC-PMMA and ADS pipes, sleeves, syphons and fittings.

APPLICATION

The surfaces to be bonded must be dry and clean. Lightly sand the surfaces if necessary. The adhesive is easy to extrude from its tube onto the surfaces to be bonded (using a slight rotational movement). The surfaces will bond immediately but we recommend waiting a few hours prior to use.

BENEFITS

- Easy to apply
- **Resistant to pressure up to 16 bar**
- Service temperature from -15°C to +95°C
- Does not drip, including in small diameter pipes

CHARACTERISTICS

- **Resistance to heat:** +95°C
- **Resistance to freezing:** -15°C
- **Storage:** 18 months at +5°/+25°C

PACKAGING

Tubes: 50 x 125 g
Please refer to Technical Data Sheet before use.

COLOUR red

CERTIFICATIONS EN 14680
EN 14814

Mapeflex MS Crystal

DESCRIPTION

Elastic high modulus, crystal clear, hybrid sealant and adhesive

Forming elastic seals between similar and/or different materials normally used in the building industry. Ideal for sealing glass to glass or between substrates in contrasting colours without having to use sealant with a similar colour.

APPLICATION

When used as sealant. Remove all loose material from the surfaces to be sealed. Apply **Primer FD** for heavy stresses when in service; apply **Primer P** on plastics. Place masking tape along the edges of the joint to form a neater seal. For fillet joints, extrude the sealant, smooth over the surface and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord along the bottom of the joint to set the correct width/height ratio.
When used as elastic adhesive. Clean and de-grease the surfaces to be bonded. Extrude beads or spots of product every 15-20 cm and press the components to be bonded together. Temporary supports must be used for 24 hours when bonding heavy objects.

BENEFITS

- **Single product for bonding and sealing**
- Compatible with damp substrates
- **Crystal clear**
- Special nozzle to prevent waste
- Solvent-free
- No hazard or warning labels required

CHARACTERISTICS

- **Consumption:** 3.0 meters per 300 ml cartridge (10x10 mm section)
- **Skin formation time:** 35 min.
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,80 N/mm²
- **Shore A hardness:** 35
- **Storage:** 18 months

COLOUR

crystal clear

CERTIFICATIONS

CE EN 15651

GEV-EMICODE EC 1 PLUS very low emission

PACKAGING

Cartridges: 12 x 300 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

Mapeflex MS45

DESCRIPTION

Hybrid sealant and adhesive with a high modulus of elasticity

For flexible seals in internal and external expansion joints and for sealing joints in civil and industrial floors. Flexible bonding of building elements as an alternative to lightweight mechanical fasteners. Compatible with all absorbent mineral substrates, metal surfaces, painted surfaces, wood, brickwork, stone and many plastics. Paintable when completely hardened.

APPLICATION

When used as sealant. Remove all loose parts from the surfaces to be sealed. Use **Primer FD** for high stresses when in service, use **Primer P** on plastics. Use masking tape along the sides of the joint to get a better edge along the seal. For fillet joints, extrude and smooth over the surface of the sealant, and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio.
When used as flexible adhesive. Clean and de-grease the surfaces to be bonded. Extrude beads or spots of the product every 15-20 cm and press together the components to be bonded. Temporary supports must be used for 24 hours for heavy objects.

BENEFITS

- **Single product for flexible bonds and seals**
- High initial "sucker effect" for bonding on vertical surfaces and ceilings
- Paintable
- Excellent resistance to ageing and UV rays
- No hazard or warning labels required on the packaging
- Solvent-free, odourless
- **Compatible with damp environments**

CHARACTERISTICS

- **Consumption:** 3.0 meters per 300 ml cartridge (10x10 mm section)
- **Skin formation time:** 45 min.
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,66 N/mm²
- **Shore A hardness:** 43
- **Storage:** 15 months at 5°C/+25°C

COLOUR

113 grey | white* | brown* | black* | beige*

**Available in 300 ml cartridges only*

CERTIFICATIONS

CE EN 15651

GEV-EMICODE EC 1 PLUS very low emission

PACKAGING

Cartridges: 12 x 300 ml
Soft-cartridges: 20 x 600 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric
Mapei Gun 600 PRO
Mapei Gun 600 PRO Electric

Mapeflex PU 45 FT

DESCRIPTION

Universal polyurethane sealant and adhesive with a high modulus of elasticity

Flexible sealing of internal and external expansion and fillet joints, sealing civil and industrial floor joints and flexible bonding of construction features instead of using screws, nails and lightweight fittings.
Compatible with all absorbent mineral substrates, metal surfaces, painted surfaces, wood, brickwork and glass. It can be painted over after complete polymerisation.

APPLICATION

When used as sealant. Remove all loose parts from the surfaces to be sealed.
Use **Primer M** or **Primer A** for high stresses when in service. Use **Primer P** on plastics.
For fillet joints, place masking tape along the edges of the joint, extrude the sealant, smooth over the sealant and immediately remove the masking tape. For expansion joints, before extruding the sealant, insert **Mapefoam** foam filler cord in the bottom of the joint to gauge the correct width/height ratio.
When used as flexible adhesive. Clean and de-grease the surfaces to be bonded. Extrude beads or spots of the product every 15-20 cm and press together the components to be bonded. Temporary supports must be used for 24 hours for heavy objects.

BENEFITS

- **Single product for flexible bonds and seals**
- High resistance to traffic
- High sucker effect for bonding on vertical surfaces and ceilings
- Paintable
- High bond strength even without primer
- Solvent free and odourless

CHARACTERISTICS

- **Consumption:** 3.0 meters per 300 ml cartridge, 6.0 meters per 600 ml soft-cartridge (10x10 mm section)
- **Skin formation time:** 90' (+23°C, 50% RH)
- **Movement in service:** 20%
- **Modulus of elasticity:** 0,80 N/mm²
- **Shore A hardness:** 38
- **Storage:** 12 months at +5°C/+25°C

COLOUR

white | 111 grey | 113 grey
black | beige* | brown*

*Available in 300 ml cartridges only

CERTIFICATIONS

CE EN 15651 | Fast Track Ready

PACKAGING

Cartridges: 12 x 300 ml
Soft-cartridges: 20 x 600 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric
Mapei Gun 600 PRO
Mapei Gun 600 PRO Electric

MapePUR Multi Adhesive Foam G

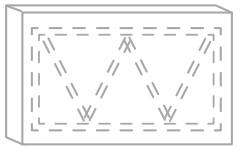
DESCRIPTION

One-component polyurethane foam adhesive

Bonding construction elements used in the building industry such as bricks, cement, wood and metal. Suitable for bonding EPS, XPS and mineral wool insulating panels.

APPLICATION

Turn the can upside down and shake for around 20 seconds. Screw the can to the threaded collar of a **MapePUR Gun Standard** and apply the foam in beads or spots to guarantee a better bond. When bonding insulating panels such as EPS or XPS, it is recommended to apply the foam around 3 cm from the edges of the panel and then make a "W" shaped pattern in the central part of the panel, as indicated in the drawing.



BENEFITS

- **Easy to use**
- Very low expansion rate
- Bonds a wide range of substrates
- Rapid-hardening
- High pull-off strength
- Supplied ready for use
- Bonds around 10-12 m² (EPS or XPS insulating panels)
- Contains no CFC

CHARACTERISTICS

- **Complete hardening:** 1,5 h
- **Finishing/trimming:** 15 min.
- **Tensile strength (in compliance with ETAG 004):** 8 N/cm²
- **Thermal conductivity:** 0,036 W/(m K)
- **Application temperature:** +5°C/+30°C
- **Reaction to fire:** class B2
- **Tensile strength:** 8,0 N/cm²
- **Storage:** 18 months

COLOUR

straw yellow

CERTIFICATIONS

B2 DIN 4102-1

PACKAGING

Hand-held cans: 12 x 750 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

MapePUR Gun Standard

MapePUR Roof Foam G e M

DESCRIPTION

Polyurethane foam for roofs

Filling, sealing and bonding building components; widely used for installing and insulating roofing tiles on gable roofs.

APPLICATION

Hand held version (**MapePUR Roof Foam M**): remove the cap and put on the protective gloves. Hold the can upside-down, shake for around 20 seconds and screw the nozzle to the valve. Apply the foam in beads and spots to guarantee a better bond. Extrusion gun version (**MapePUR Roof Foam G**): shake the can for around 20 seconds and screw the can to the threaded collar of a **MapePUR Gun Standard**.

BENEFITS

- Contains no CFC
- **Low expansion rate**
- **Simple rapid use**
- Ready to use
- High tear strength
- For bonding 6-16 m² of roof tiles
- Precise feed, maximum yield and no waste (**MapePUR Roof Foam G**)

CHARACTERISTICS

- **Volume:** up to 45 litres (free expansion)
- **Sanding:** 30 min.
- **Thermal conductivity:** 0,039 W/(m K) (**M** version) 0,036 W/(m K) (**G** version)
- **Application temperature:** +5°C/+30°C
- **Reaction to fire:** class B2
- **Modulus of elasticity:** 0,36 N/mm²
- **Tensile strength:** 7,5 N/cm²
- **Adhesion to roof tiles:** 12,5 N/cm²
- **Storage:** 18 months

PACKAGING

Hand-held cans: 12 x 750 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

MapePUR Gun Standard

COLOUR

grey

CERTIFICATIONS

B2 DIN 4102-1

Ultrabond MS Rapid

DESCRIPTION

Rapid-setting assembly adhesive for internal and external use

Assembling and constructing building and industrial elements without or with limited use of mechanical fasteners. Deformable bonds for light or heavy construction elements on all the most widely used building materials, including damp materials. Ideal for bonding panels, dressing materials, mirrors and decorative features on internal and external surfaces. Also specific for bonding **Idrostop Soft** water-expanding profiles.

APPLICATION

Thoroughly clean and degrease all surfaces to be bonded. For certain applications apply **Primer FD** or **Primer P** and leave to dry. Apply one or more parallel beads around 10-15 cm apart using the triangular pre-cut nozzle. Press together the elements to be bonded for at least 10 seconds. Use temporary supports when bonding heavy objects.

BENEFITS

- **Very high initial sucker effect**
- **High strength bond after a very short time**
- No clamps required
- Compatible with most building materials*, including damp materials
- Evens out irregularities between different surfaces when fresh; absorbs the different expansion rates of bonded materials/ elements when hardened
- Suitable for internal and external use and below water

**for plastics, contact the MAPEI Technical Services Department*

CHARACTERISTICS

- **Consumption:** 5.0 meters per 300 ml cartridge (10x10 mm high triangular section)
- **Skin formation time:** 5 min.
- **Hardening time:** 2 hours
- **Initial tensile strength (sucker effect):** 25 N/12 cm²
- **Final tensile strength:** 30 kg/cm²
- **Storage:** 18 months at +5°C/+25°C

PACKAGING

Cartridges: 12 x 300 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

COLOUR

white

CERTIFICATIONS

GEV-EMICODE EC 1 PLUS Very low emission

Fast Track Ready

Ultrabond PU Strong

DESCRIPTION

Ultra-rapid assembly polyurethane rigid adhesive

Rigid bonds when constructing and assembling internal and external components and features on site; may be used in addition to or instead of mechanical fasteners. Ideal for use as ultra-rapid-hardening adhesive with a strong final hold.
In certain cases it may be necessary to press the elements together or use a temporary support for the bonded object.

APPLICATION

Clean and de-grease the surfaces to be bonded, apply a series of parallel beads or spots of adhesive around 10-15 cm apart and press together the elements to be bonded for a sufficient amount of time, depending on their weight. When bonding on vertical surfaces a temporary support may be required.

BENEFITS

- **Ultra-fast**
- **Structural bonds**
- Compatible with damp substrates
- High pull-off strength
- Sandable, drillable, paintable

CHARACTERISTICS

- **Skin formation time:** 4 min
- **Adjustment time:** 10 min
- **Hardening time:** 2 hours
- **Application temperature:** +5°C/+35°C
- **Storage:** 18 months

PACKAGING

Cartridges: 12 x 300 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

COLOUR

beige

CERTIFICATIONS

Ultrabond Super Grip

DESCRIPTION

Rapid acrylic assembly adhesive for internal use

Flexible bonding of absorbent construction components as a replacement for nails, screws, mechanical fasteners and rigid adhesives.
Ideal for bonding wood panelling, profiles, decorative features and dressing panels, including on vertical surfaces and ceilings.

APPLICATION

Carefully clean and de-grease the surfaces to be bonded, extrude the product in beads and spots every 10-15 cm on the parts to be bonded and press the parts together for a few seconds. When bonding heavy objects, use temporary supports for 24 hours.
One of the two surfaces must be porous and absorbent.

BENEFITS

- High sucker-cup effect
- Also suitable for vertical surfaces and ceilings
- Bonded items may be readjusted within 10-15 minutes
- Excellent filling properties
- Paintable
- Flexible bonds

CHARACTERISTICS

- **Consumption:** approx. 3.9 metres of 10 mm diameter bead, 15 metres of 5 mm diameter bead
- **Skin formation time:** 10-15 min. (+23°C, 50% RH)
- **Hardening time:** 24-48 hours (+23°C, 50% RH)
- **Initial tensile strength (sucker effect):** 17 N/12 cm²
- **Final tensile strength:** 32,5 kg/cm²
- **Storage:** 24 months at +5°C/+25°C

PACKAGING

Cartridges: 12 x 310 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

COLOUR

white

CERTIFICATIONS

COLOUR CHART

	100 WHITE	103 MOON WHITE	110 MANHATTAN 2000	111 SILVER GREY	112 MEDIUM GREY	113 CEMENT GREY	114 ANTHRACITE	115 RIVER GREY	116 MUSK GREY	119 LONDON GREY	120 BLACK	130 JASMINE	131 VANILLIA	132 BEIGE 2000	160 MAGNOLIA *	133 SAND	134 SILK	135 GOLDEN DUST	137 CARIBBEAN	138 ALMOND	139 PINK POWDER	142 BROWN	141 CARAMEL	140 CORAL RED *	145 TERRA DI SIENA	143 TERRACOTTA	136 MUD	144 CHOCOLATE	149 VOLCANO SAND	174 TORNADO	170 CROCUS BLUE	172 SPACE BLUE	171 TURQUOISE	181 JADE GREEN *	150 YELLOW	152 LIQUORICE	162 VIOLET	CRYSTAL	999 TRANSPARENT	WHITE	WHITE GREY	GREY	COPPER	DARK BROWN	BLACK	BEIGE	BROWN
Mapesil U																																						●	●							
Mapesil Z Plus				●		●						●																										●	●							
Mapesil AC	●	●	●	●	●	●	○	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●								
Mapesil 300°C																																							○							
Mapeflex AC2																																								●		●					
Mapeflex AC4																																								●		●					
Ultrabond Super Grip																																								●							
Mapeflex AC-P																																								●							
Mapeflex AC-FR																																										●					
Mapeflex Firestop 1200°C																																										●					
Mapeflex Blackfill																																							○							
Mapeflex PU40				●	●																																		●							
Mapeflex PU 45 FT				●		●																																	●					○	●	●
Mapeflex PU50 SL				●																																											
Mapeflex PU35 CR						●																																									
Mapeflex PU70 SL																																												○			
Mapeflex PB25																																												○			
Mapeflex PU65																																												○			
Mapeflex PU20						●																																									
Mapeflex PU30						●																																									
Mapeflex PU21						●																																									
Mapesil BM																																									●			●	●			
Mapesil GP																																									●	●	●	●	○	○			
Mapesil LM	●		●	●	●	●	○				○	●		●																								●								
Mapeflex MS Crystal																																						●								
Mapeflex MS45						●																																		●					○	●	●
Ultrabond MS Rapid																																							●							
Ultrabond PU Strong																																													●		

The chart contains standard colours, coordinated with the "Mapei Coloured Grouts" range and some special colours.

Due to the printing processes involved, the following colours should be taken as merely indicative of the shades of the actual product. * Colours available while stocks last.

Chemical anchors

Definitely anchored

From Mapei research, a complete range of chemical anchors with ETA certification and CE marking, for secure repeatable results.

Mapefix is a line of products specific for light, heavy, structural, static, dynamic and seismic loads and are suitable for a wide range of materials, such as concrete and masonry.

They are unique for their level of hold and reliability, offering extraordinary versatility: only a few products are required to meet the various needs encountered on site. Whatever your anchoring needs, Mapefix is the sure solution.

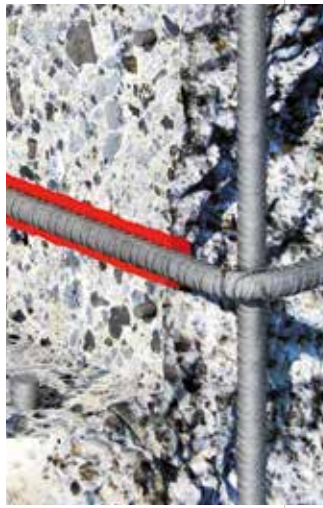
FIXING

Mapefix EP 385/EP 585

DESCRIPTION

Pure epoxy chemical anchor for structural loads

Two-component pure epoxy resin at a ratio of 3:1 contained in cartridges with two separate compartments and a static mixing nozzle. Certified for chemical anchors for threaded bar and rebar in rough or smooth (core drilled) holes in all types of building material such as concrete, wood and all types of masonry. Also certified for supplementary reinforcing bars in reinforced concrete and for anchoring elements subjected to seismic loads (classes C1 and C2). Ideal for all types of structural strengthening work, construction joints, for use in aggressive environments, damp areas and areas below the water line and for static, dynamic or seismic loads.



APPLICATION

Calculate the size of the anchor according to the directions on the Technical Data Sheet, drill the substrate, remove all traces of dust and any loose portions, screw the static mixer to the cartridge, discard the first 3 shots of resin, then fill the hole to 2/3 its depth without entraining air. Insert the metal bar in the hole while rotating it until any excess resin is forced out.

BENEFITS

- **For anchors in tension and compressed zones, strengthening rods and for seismic loads**
- **For concrete with or without cracks**
- **For all building materials for use in damp or wet holes or in holes below water**
- Long workability time
- Special zero-waste cartridges
- Very high mechanical strength
- For bars from M8 to M39 and for reinforcing steel from Ø8 to Ø40
- European certifications

CHARACTERISTICS

- **Application temperature:** +5°C/+40°C
- **Storage:** 24 months at +5°C/+25°C

COLOUR grey

PACKAGING

Cartridges: 12 x 385 ml
Cartridges: 12 x 585 ml

WORKING TOOLS

Mapei Gun 585 2K
Mapei Gun 585 2K Electric

CERTIFICATIONS

ETA option 1 for anchors in tension zones (M12-M30, Ø12-Ø32) and compressed zones (M8-M30, Ø8-Ø32); *ETA seismic performance C1* for anchors in seismic zones; *ETA REBAR* option for supplementary reinforcing bars in reinforced concrete (Ø8-Ø25); fire resistant for anchors in fire risk areas

Fast Track Ready

Coredrill: core drilled hole — **M10 ÷ M24 Ø10 ÷ Ø25**

OP1: cracked and non cracked concrete — **M12 ÷ M30 Ø12 ÷ Ø32**

C2: Seismic performance — **M12 ÷ M16**

OP7: non cracked concrete — **M8 ÷ M30 Ø10 ÷ Ø32**

C1: Seismic performance — **M12 ÷ M30 Ø12 ÷ Ø32**

Rebar: post installed rebar — **Ø8 ÷ Ø40**

Feuerwiderstandsklasse F 120

Mapefix EP 470 Seismic

DESCRIPTION

Pure epoxy chemical anchor for structural loads

Two-component pure epoxy resin at a ratio of 2:1 contained in cartridges with two separate compartments and a static mixing nozzle. Certified for chemical anchors for threaded bar and rebar in rough or smooth (core drilled) holes in all types of building material such as concrete, wood and all types of masonry. Also certified for supplementary reinforcing bars in reinforced concrete and for anchoring elements subjected to seismic loads (classes C1 and C2). Ideal for all types of structural strengthening work, construction joints, for use in aggressive environments, damp areas and areas below the water line and for static, dynamic or seismic loads.

APPLICATION

Calculate the size of the anchor according to the directions on the Technical Data Sheet, drill the substrate, remove all traces of dust and any loose portions, screw the static mixer to the cartridge, discard the first 3 shots of resin, then fill the hole to 2/3 its depth without entraining air. Insert the metal bar in the hole while rotating it until any excess resin is forced out.

BENEFITS

- **For anchors in tension and compressed zones, strengthening rods and for seismic loads**
- **For concrete with or without cracks**
- **For all building materials for use in damp or wet holes or in holes below water**
- Long workability time
- Special zero-waste cartridges
- Very high mechanical strength
- For bars from M8 to M39 and for reinforcing steel from Ø8 to Ø40
- European certifications

CHARACTERISTICS

- **Application temperature:** +5°C/+40°C
- **Storage:** 24 months at +5°C/+25°C

COLOUR grey

PACKAGING

Cartridges: 12 x 470 ml

WORKING TOOLS

Mapei Gun 585 2K
Mapei Gun 585 2K Electric

CERTIFICATIONS

ETA option 1 for anchors in tension zones (M12-M30, Ø12-Ø32) and compressed zones (M8-M30, Ø8-Ø32); *ETA seismic performance C1* for anchors in seismic zones; *ETA REBAR* option for supplementary reinforcing bars in reinforced concrete (Ø8-Ø25); fire resistant for anchors in fire risk areas.

OP7: non cracked concrete — **M8 ÷ M30**

C2: Seismic performance — **M16 ÷ M24**

OP1: cracked and non cracked concrete — **M12 ÷ M24**

Rebar: post installed rebar — **Ø8 ÷ Ø32**

Fast Track Ready

Mapefix PE SF

DESCRIPTION

Chemical anchor for heavy loads

Two-component, styrene-free polyester resin in a single cartridge with static mixer, certified as a chemical anchor for metal bars in rough holes in various building materials, such as concrete, stone and solid, semi-solid, perforated and mixed masonry. Ideal for anchoring aerials, signs, window and door fittings, plant equipment and sanitary fittings.

APPLICATION

Calculate the size of the anchor according to the directions on the Technical Data Sheet, drill the substrate, remove all traces of dust and any loose portions, screw the static mixer to the cartridge, discard the first 3 shots of resin, then fill the hole to 2/3 its depth without entraining air. Insert the metal bar in the hole while rotating it until any excess resin is forced out.
Because the product reacts very quickly, carry out anchoring work without interruptions to avoid waste.

BENEFITS

- **For concrete and masonry**
- **Suitable for use in damp holes or at temperatures down to -5°C**
- Ultra-rapid hardening
- Also available for silicone guns
- For bars from M8 to M24
- European certifications

CHARACTERISTICS

- **Application temperature:** -5°C/+35°C
- **Storage:** 12 months (300 ml), 18 months (420 ml) at +5°C/+25°C

COLOUR grey

PACKAGING

Cartridges: 12 x 300 ml
Cartridges: 12 x 420 ml

WORKING TOOLS 300 ml

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

WORKING TOOLS 420 ml

Mapei Gun 420 2K
Mapei Gun 420 2K Electric

CERTIFICATIONS

ETA option 7 for anchors in compressed zones (M8 ÷ M24)

OP7: non cracked concrete — **M8 ÷ M24**

Fast Track Ready

Mapefix PE Wall

DESCRIPTION

Chemical anchor for masonry

Two-component, styrene-free polyester resin in a single cartridge with static mixer, certified as a chemical anchor for metal bars in rough holes in various building materials, such as concrete, stone and solid, semi-solid, perforated and mixed masonry. Ideal for anchoring aerials, signs, window and door fittings, plant equipment and sanitary fittings.

APPLICATION

Calculate the size of the anchor according to the directions on the Technical Data Sheet, drill the substrate, remove all traces of dust and any loose portions, screw the static mixer to the cartridge, discard the first 3 shots of resin, then fill the hole to 2/3 its depth without entraining air. Insert the metal bar in the hole while rotating it until any excess resin is forced out. Because the product reacts very quickly, carry out anchoring work without interruptions to avoid waste.

BENEFITS

- **For all types of masonry**
- Suitable for use in holes at temperatures down to 0°C
- Ultra-rapid hardening
- Also available for silicone guns
- Special zero-waste cartridges
- For bars from M8 to M12

CHARACTERISTICS

- **Application temperature:** 0°C/+35°C
- **Storage:** 12 months (300 ml), 18 months (380 ml) at +5°C/+25°C

COLOUR grey

PACKAGING

Cartridges: 12 x 300 ml
Cartridges: 12 x 380 ml

WORKING TOOLS 300 ml

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

WORKING TOOLS 380 ml

Mapei Gun 420 2K
Mapei Gun 420 2K Electric

CERTIFICATIONS

ETAG 029 for anchors in masonries (M8 ÷ M12)

OP7: non cracked concrete — **M8 ÷ M12**

Fast Track Ready

Mapefix VE SF

DESCRIPTION

Chemical vinylester anchor for structural loads

Two-component, styrene-free polyester resin in a single cartridge with static mixer, certified as a chemical anchor for metal bars in rough holes in various building materials, such as concrete, stone and solid, semi-solid, perforated and mixed masonry. Ideal for anchoring aerials, signs, window and door fittings, plant equipment and sanitary fittings.

APPLICATION

Calculate the size of the anchor according to the directions on the Technical Data Sheet, drill the substrate, remove all traces of dust and any loose portions, screw the static mixer to the cartridge, discard the first 3 shots of resin, then fill the hole to 2/3 its depth without entraining air. Insert the metal bar in the hole while rotating it until any excess resin is forced out. Because the product reacts very quickly, carry out anchoring work without interruptions to avoid waste.

BENEFITS

- **For anchors in tension zones, construction bars in concrete, seismic loads**
- **For concrete with or without cracks**
- **For all building materials, including damp or wet ones**
- Ultra-rapid hardening
- Very high mechanical strength
- Special zero-waste cartridges
- For bars from M8 to M30 and from Ø8 to Ø32

CHARACTERISTICS

- **Application temperature:** -10°C/+35°C
- **Storage:** 12 months (300 ml), 18 months (420 ml) at +5°C/+25°C

COLOUR grey

PACKAGING

Cartridges: 12 x 300 ml
Cartridges: 12 x 420 ml
Kit Combibox:
12 x 300 ml and 12 x 420 ml

WORKING TOOLS 300 ml

Mapei Gun 310
Mapei Gun 310 PRO
Mapei Gun 310 Electric

WORKING TOOLS 420 ml

Mapei Gun 420 2K
Mapei Gun 420 2K Electric

CERTIFICATIONS

ETA *option 1* for anchors in tension zones (M12-M30, Ø12-Ø32) and compressed zones (M8-M30, Ø8-Ø32); *ETA* seismic performance *C1* for anchors in seismic zones; *ETA REBAR* option for supplementary reinforcing bars in reinforced concrete (Ø8-Ø25); *fire resistant* for anchors in fire risk areas

OP7: non cracked concrete — **M8 ÷ M30 Ø8 ÷ Ø32**

C1: Seismic performance — **M8 ÷ M30 Ø8 ÷ Ø32**

Feuerwiderstandsklasse F 120

OP1: cracked and non cracked concrete — **M8 ÷ M30 Ø8 ÷ Ø32**

Rebar: post installed rebar — **Ø8 ÷ Ø32**

Fast Track Ready

Foams

For an impenetrable barrier

A complete range of multi-purpose polyurethane foams: for filling, sealing and insulating.

MapePUR is the Mapei line of self-expanding foams that form an impenetrable barrier, eliminating thermal bridges to improve living comfort.

They are supplied in handy, ready-to-use packs, they are easy to use and may be applied quickly without wasting material.

They have been designed for specific areas of use and come complete with certification to guarantee their reliability and sure results.

FILLING

MapePUR All in One Foam

DESCRIPTION

Multi-purpose polyurethane foam with multi-use feeder valve

Filling and sealing large and small gaps and cavities. Assembly work and filling and insulating gaps for a wide range of construction features in the building industry and equipment/plant installations.

APPLICATION

When using the sealant gun version, shake the can for around 20 seconds and screw the can to a **MapePUR Gun standard** using the threaded collar. Alternatively, the small tube supplied with the can may be used instead of the sealant gun to feed the foam (always wear protective gloves).

BENEFITS

- **Double use valve (manual and gun application)**
- Insulating/soundproofing properties
- Rapid-hardening
- Excellent adhesion (except on PE, PP and Teflon)
- Ready to use
- CFC free

CHARACTERISTICS

- **Volume:** up to 38-45 litres (free expansion)
- **Sanding:** 25 min
- **Thermal conductivity:** 0,039 W/(m K)
- **Application temperature:** +5°C/+30°C
- **Reaction to fire:** class B2

PACKAGING

Hand-held cans: 12 x 750 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

MapePUR Gun Standard

COLOUR

straw yellow

CERTIFICATIONS

B2

MapePUR Fire Foam M

DESCRIPTION

Fire-proof polyurethane foam

Filling, sealing and insulating gaps requiring class EI fire resistance.

APPLICATION

Remove the cap and put on the protective gloves under the cap. Hold the can upside-down, shake for around 20 seconds and screw the nozzle to the valve. Spray the foam into the area to be filled; start from the lowest part and work upwards. Fill the gap to around 60% of its volume, wait until it has expanded and set and trim off the excess foam.

BENEFITS

- CFC free
- High expansion rate
- **Certified EI 240 fire resistant**
- Ready to use
- Thixotropic

CHARACTERISTICS

- **Volume:** up to 45 litres (free expansion)
- **Sanding:** 30 min.
- **Thermal conductivity:** 0,039 W/(m K)
- **Application temperature:** +5°C/+30°C
- **Reaction to fire:** class B1
- **Storage:** 12 months

PACKAGING

Hand-held cans: 12 x 750 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

MapePUR Gun Standard

COLOUR

pink

CERTIFICATIONS

B1 DIN 4102-1 · EI 240 EN 13501-2

MapePUR Roof Foam G e M

DESCRIPTION

Polyurethane foam for roofs

Filling, sealing and bonding building components; widely used for installing and insulating roofing tiles on gable roofs.

APPLICATION

Hand held version (**MapePUR Roof Foam M**): remove the cap and put on the protective gloves. Hold the can upside-down, shake for around 20 seconds and screw the nozzle to the valve. Apply the foam in beads and spots to guarantee a better bond. Extrusion gun version (**MapePUR Roof Foam G**): shake the can for around 20 seconds and screw the can to the threaded collar of a **MapePUR Gun Standard**.

BENEFITS

- CFC free
- **Low expansion rate**
- **Simple rapid use**
- Ready to use
- High tear strength
- For bonding 6-16 m² of roof tiles
- Precise feed, maximum yield and no waste (**MapePUR Roof Foam G**)

CHARACTERISTICS

- **Volume:** up to 45 litres (free expansion)
- **Sanding:** 30 min.
- **Thermal conductivity:** 0,039 W/(m K) (**M** version) 0,036 W/(m K) (**G** version)
- **Application temperature:** +5°C/+30°C
- **Reaction to fire:** class B2
- **Modulus of elasticity:** 0,36 N/mm²
- **Tensile strength:** 7,5 N/cm²
- **Adhesion to roof tiles:** 12,5 N/cm²
- **Storage:** 18 months

PACKAGING

Hand-held cans: 12 x 750 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

MapePUR Gun Standard

COLOUR

grey

CERTIFICATIONS

B2 DIN 4102-1

MapePUR Universal Foam G e M

DESCRIPTION

Multi-purpose polyurethane foam

Filling and sealing large and small gaps and cavities. Assembly, filling and insulating work on a wide range of construction features in the building and plant installation sectors.

APPLICATION

Hand held version (**MapePUR Universal Foam M**): remove the cap and put on the protective gloves. Hold the can upside-down, shake for around 20 seconds and screw the nozzle to the valve. Spray the foam into the area to be filled; start from the lowest part and work upwards. Fill the gap to around 60% of its volume. Extrusion gun version (**MapePUR Universal Foam G**): shake the can for around 20 seconds and screw the can to the threaded collar of a **MapePUR Gun Standard**. The foam may be cut once set.

BENEFITS

- **Insulating/soundproofing properties**
- Ready to use
- Excellent adhesion (except on PE, PP and Teflon)
- Rapid-hardening
- Precise feed, maximum yield, no waste (**MapePUR Universal Foam G**)
- CFC free

CHARACTERISTICS

- **Volume:** up to 45 litres (free expansion)
- **Sanding:** 30 min.
- **Thermal conductivity:** 0,039 W/(m K) (**M** version) 0,036 W/(m K) (**G** version)
- **Acoustic insulation:** 58 dB
- **Application temperature:** +5°C/+30°C
- **Storage:** 18 months

PACKAGING

Hand-held cans: 12 x 750 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

MapePUR Gun Standard

COLOUR

straw yellow

CERTIFICATIONS

B3 DIN 4102-1

MapePUR Winter Foam G e M

DESCRIPTION

Universal polyurethane foam suitable for cold climates

Filling and sealing large and small gaps and cavities. Assembly, filling and insulating work on a wide range of construction features in the building and plant installation sectors; it may be used at temperatures as low as -10°C.

APPLICATION

Hand held version (**MapePUR Universal Foam M**): remove the cap and put on the protective gloves. Hold the can upside-down, shake for around 20 seconds and screw the nozzle to the valve. Spray the foam into the area to be filled; start from the lowest part and work upwards. Fill the gap to around 60% of its volume. Extrusion gun version (**MapePUR Universal Foam G**): shake the can for around 20 seconds and screw the can to the threaded collar of a **MapePUR Gun Standard**. The foam may be cut once set.

BENEFITS

- **Application in areas at low temperatures such as refrigeration cells, air-conditioning systems and during the winter**
- **Insulating/soundproofing properties**
- Rapid-hardening
- Excellent adhesion (except on PE, PP and Teflon)
- Ready to use

CHARACTERISTICS

- **Volume:** up to 45 litres (free expansion)
- **Sanding:** 25 min
- **Thermal conductivity:** 0,039 W/(m K) (**M** version) 0,036 W/(m K) (**G** version)
- **Application temperature:** -10°C/+25°C
- **Reaction to fire:** class B3
- **Storage:** 12 months

PACKAGING

Hand-held cans: 12 x 750 ml
Please refer to Technical Data Sheet before use.

WORKING TOOLS

MapePUR Gun Standard

COLOUR

straw yellow

CERTIFICATIONS

B3 DIN 4102-1

Primers

For perfect results

To help Mapei sealants adhere even more strongly a complete line of Primers has been created. Formulations that are easy to use, designed for various types of surface and according to the different types of sealant to be applied later.
They improve the adherence, durability and efficiency of Mapei sealants: a winning combination for work with a high level of reliability.

PRIMERS

Primer A

Primer for absorbent surfaces

USE	Solvent-free aliphatic polyurethane primer to improve adhesion of **Mapeflex** one-component polyurethane sealants on many different types of substrate. **Primer A** is supplied ready-mixed and is applied by brush in a single, even coat over the entire substrate. The sealant must only be applied when the primer is no longer sticky (2 hours at +23°C and 50% R.H.).
CONSUMPTION	5÷10 g/metre of treated 1 cm-deep joint

PACKAGING

250 g bottle
1 kg bottle

Primer M

Primer for absorbent and non-absorbent surfaces

USE	Solvent-free polyurethane primer to promote the bond of **Mapeflex** one-component polyurethane sealants on all types of compact, non-absorbent building substrates, such as concrete, mortar, wood, brickwork, metal, ceramic and painted surfaces. **Primer M** is supplied ready to use and is applied by brush in a single even coat on the surface of the substrate. The sealant must only then be applied when the primer is no longer sticky to the touch, after approximately 40 min. at +23°C and 50% RH.
CONSUMPTION	5÷10 g/metre of treated 1 cm-deep joint.

PACKAGING

250 g bottle
2 kg bottle

Primer EP

Primer for Mapeflex PU20, Mapeflex PU21 and Mapeflex PU30

USE

Transparent epoxy primer in solvent supplied in kits of 2 pre-dosed components, used to promote the bond of **Mapeflex** epoxy-polyurethane sealants. Mix the 2 components together and apply one or more coats of the mix on all absorbent or compact building substrates, according to the absorbency of the substrate. The sealant must only then be applied when the primer is no longer sticky to the touch, from 3 to 24 hours after application at +23°C and 50% RH. The workability time of the product after mixing is 4-5 hours.

CONSUMPTION

5÷10 g/metre of treated 1 cm-deep joint.

PACKAGING

10 kg kit (A+B)

Primer FD

Primer for the sealants of the Mapesil line

USE

One-component silicone primer in solvent, used to promote the bond of **Mapesil** silicone sealants on absorbent mineral substrates in critical application conditions. **Primer FD** is supplied ready to use and is applied by brush in one or more coats according to the porosity of the substrate. The sealant must only then be applied when the primer is no longer sticky to the touch, after approximately 60 hours at +23°C and 50% RH.

CONSUMPTION

5÷10 g/metre of treated 1 cm-deep joint.

PACKAGING

200 g bottle
900 g bottle

Primer MF

Primer for Mapeflex PU20, Mapeflex PU21 and Mapeflex PU30

USE

Two-component, solvent-free, epoxy primer used as a bonding promoter for epoxy-polyurethane sealants from the **Mapeflex** range. Mix the two components together and apply on all absorbent or compact building substrates. The sealant must only be applied when the primer is no longer sticky (4-48 hours). The workability time of the product after mixing is 90'.

CONSUMPTION

5÷10 g/metre of treated 1 cm-deep joint.

PACKAGING

6 kg kit (A+B)

Primer P

Primer for plastics

USE

Transparent solvent primer used to promote the bond of **Mapesil** neutral silicone sealants, **Mapeflex** and **Ultrabond** one-component polyurethane and hybrid sealants to a wide range of rigid and flexible plastics, such as PVC, polycarbonate, polyolefine, HD polypropylene, foam polyethylene, EPDM and plexiglas. **Primer P** is supplied ready to use and is applied by brush in one or more coats according to the porosity of the substrate.
The sealant must only then be applied when the primer is no longer sticky to the touch, after approximately 20 min. at +23°C and 50% RH.
We recommend carrying out preliminary tests or contacting the Mapei Technical Services Department prior to application.

CONSUMPTION

5÷10 g/metre of treated 1 cm-deep joint.

PACKAGING

150 g bottle

Primer PU60

Primer for sealants such as Mapeflex PB25 and Mapeflex PU70 SL

USE

One-component polyurethane primer in solvent, used to promote the bond of **Mapeflex PB25** and **Mapeflex PU70 SL** polyurethane-modified sealants. **Primer PU60** is supplied ready to use and is applied by brush in one or more coats, according to the porosity of the substrate. The sealant must only then be applied when the primer is no longer sticky to the touch, after approximately 24 hours at +23°C and 50% RH.

CONSUMPTION

5÷10 g/metre of treated 1 cm-deep joint.

PACKAGING

10 kg metallic drum

Accessory items and tools

To make work easier

To bring out the best from Mapei products and to simplify and speed up work, a range of high performance accessory items has been developed.

Mixers, sockets, manual and electric sealant guns and nozzles to help extrude sealants, foams and chemical anchors more quickly and more precisely with less effort.

Mapefoam

DESCRIPTION

Circular cord for pre-filling building joints

Pre-formed, closed-cell, foam polyethylene cord to gauge the correct depth for elastomeric sealants used for filling expansion, fillet and separation joints, cracks and slits to avoid the sealant sticking to the bottom of the joint.

APPLICATION

Use a cord 20-30% larger than the average width of the joint to be sealed, press it into the joint by hand to set it at a suitable height to form the required section to be sealed.

BENEFITS

- Pre-formed cord which is easy to compress, adaptable to different joint sizes
- Non-stick for all sealants
- Closed-cell foam product to impede water absorption
- Does not rot even in damp environments
- Excellent dimensional stability and good chemical resistance

CHARACTERISTICS AND PACKAGING

- **Density:** 40 kg/m³
- **Diameters:**
  Ø 6 mm, 550 m rolls
  Ø 10 mm, 550 m rolls
  Ø 15 mm, 550 m rolls
  Ø 20 mm, 350 m rolls
  Ø 25 mm, 200 m rolls
  Ø 30 mm, 160 m rolls
  Ø 40 mm, 2 m bars, 270 m boxes

Spare static mixers

For Mapefix PE Wall, PE SF and Mapefix VE SF

USE

Plastic conical mixer units with internal spiral element used to mix and extrude **Mapefix PE Wall** and **PE SF** polyester resin and **Mapefix VE SF** vinylester resin chemical anchors when the standard static mixers supplied with the cartridge are not suitable for a particular site application.

PACKAGING

Bags of 12 mixers

CODE

1961112

Spare static mixers

For Mapefix EP 385 and Mapefix EP 585

USE

Plastic conical mixer units with internal spiral element with 18 loops and cylindrical extension, used to mix and extrude **Mapefix EP** epoxy resin chemical anchors when the standard static mixers supplied with the cartridge are not suitable for a particular site application.

PACKAGING

Bags of 12 mixers
+ 12 cylindrical extensions

CODE

1961412

Perforated plastic sleeves

For Mapefix range in perforated substrates

USE	Drilled, plastic cylindrical sleeves used in combination with **Mapefix** chemical anchors in perforated substrates such as brick and concrete block masonry. Insert in holes drilled in the substrate before extruding **Mapefix** resin and inserting metal bars.
PACKAGING	**Bags of 10 mesh sleeves:** Ø 12 x 80 mm **Bags of 10 mesh sleeves:** Ø 15 x 85 mm **Bags of 10 mesh sleeves:** Ø 20 x 85 mm
CODE	**19613110** Ø 12 x 80 mm **19613210** Ø 15 x 85 mm **19613310** Ø 20 x 85 mm

Perforated metallic sleeves

For Mapefix range in perforated substrates

USE	Round steel bars fixed into both perforated and hollow compact substrates after filling holes for the bars with **Mapefix** chemical resin anchor. May be cut to size according to the length required.
PACKAGING	**Bags of 50 mesh sleeves:** Ø 12 x 1000 mm **Bags of 50 mesh sleeves:** Ø 16 x 1000 mm **Bags of 85 mesh sleeves:** Ø 20 x 1000 mm

Mapei Gun 310

Pro-grade manual extrusion gun for 280, 300 and 310 ml cartridges

USE	Extruding sealants, included high viscosity sealants. Also suitable for chemical bolts in co-axial packages
BENEFITS	• Robust structure for a long service life • Low weight
PACKAGING	**1 pc**
CODE	**7948101**

Mapei Gun 310 PRO

Pro-grade manual extrusion gun for 280, 300 and 310 ml cartridges

USE	Easy extrusion of low-viscosity (silicon and acrylic) and high viscosity (polyurethane, bitumen and butyl) sealants. Also suitable for chemical anchors in co-axial 300 ml packages, extruted at low temperatures.
BENEFITS	• High gear ratio for fatigue-free extrusion • Robust structure for a long service life • Lightweight with an ergonomic grip • Wear-compensation mechanism
PACKAGING	**1 pc**
CODE	**7948201**

Mapei Gun 420 2K

Pro-grade manual extrusion gun for Mapefix 380 and 420 ml

USE	Effortless extrusion of chemical anchors contained in co-axial (380-410 ml and 420 ml) cartridges. Also suitable for use at low temperatures.
BENEFITS	• High gear ratio for easy, effortless extrusion • Robust structure for a long service life
PACKAGING	**1 pc**
CODE	**7948301**

Mapei Gun 600 PRO

Pro-grade manual extrusion barrel for 550 and 600 ml soft-cartridges

USE	Easy extrusion of low-viscosity (silicon and acrylic) and high viscosity (polyurethane, bitumen and butyl) sealants in 550 and 600 ml soft-cartridges, also suitable for use at low temperatures.
BENEFITS	• High gear ratio for fatigue-free extrusion • Robust structure for a long service life • Low weight with an ergonomic grip • Wear-compensation mechanism
PACKAGING	**1 pc**
CODE	**7948501**

Mapei Gun 585

Pro-grade manual extrusion gun for Mapefix EP 385, 470 and 585 ml

USE	Effortless extrusion of chemical anchors contained in bi-axial cartridges with a mixing ratio of 3:1 and 10:1, also suitable for use at low temperatures.
BENEFITS	• High gear ratio for easy, effortless extrusion • Robust structure for a long service life • May be used for 3 different types of bi-axial cartridge
PACKAGING	**1 PC**
CODE	**7948401**

Nozzles for Mapei Gun 600 PRO

Extrusion nozzles for soft-cartridges

USE	Used in combination with **Mapei Gun 600 PRO** or **Mapei Gun 600 PRO Electric** silicone guns to extrude the contents of soft-cartridges.
PACKAGING	**10 pc**
CODE	**797502**

Mapei Gun 825 2K

Pro-grade manual extrusion gun for Mapefix 825 ml

USE	Effortless extrusion of chemical anchors contained in co-axial 825 ml cartridges. Also suitable for use at low temperatures
BENEFITS	• High gear ratio for fatigue-free extrusion • Robust structure for a long service life
PACKAGING	**1 pc**
CODE	**7948601**

MapePUR Easy Spray

Accessory for hand-held foam polyhurethane spray cans

USE	Ergonomic grip for polyurethane manual foam cans.
BENEFITS	• Easy use even in narrow areas • Light and robust • Allows better control of the foam during spraying
PACKAGING	**5 pc**
CODE	**7949201**

Mapei Gun Electric

Range of elastic sealant guns with rechargeable batteries

USE	Electric tools for sealants and elastic adhesives in cartridges or tubes, chemical anchors in co-axial and bi-axial cartridges.
BENEFITS	• Low weight • Easy to use • Easy to extrude • Constant feed • Complete kit comprising two rechargeable batteries, one battery charger and a carrying case
PACKAGING	**1 pc**

Mapei Gun 310 Electric
CODE: **7948701**

Mapei Gun 420 2k Electric
CODE: **7948801**

Mapei Gun 600 PRO Electric
CODE: **7948901**

Mapei Gun 585 2K Electric
CODE: **7949001**

MapePUR Gun Standard

Extrusion gun for polyhurethane foam

USE	Effortless precise extrusion of polyurethane foam. Clean with **MapePUR Cleaner** immediately after use.
BENEFITS	• Metal body • Lightweight • Constant mix feed • Control of the foam during spraying
PACKAGING	**1 pc**
CODE	**7949101**

MapePUR Dispenser M

Spare nozzle for hand-geld polyhurethane foam spray cans

USE	Spare nozzles for hand-held cans of foam.
BENEFITS	• Ergonomic hand-grip • Re-sealable nozzle
PACKAGING	**12 pc**
CODE	**7949301**

MapePUR Cleaner

DESCRIPTION

Cleaning solution for polyhurethane foam

To remove polyurethane foam before it hardens from tools, packaging and clothes.

APPLICATION

Shake the can for at least 10 seconds, remove the cap, attach the cylindrical nozzle to the can and clean all the dirty areas. Screw the can to the threaded collar of a **MapePUR Gun Standard** to clean the internal circuit after use.

BENEFITS

- May be used for manual spray application
- CFC free
- Ready to use
- Long storage time

CHARACTERISTICS

- **Application temperature:** +5°C
- **Storage:** 18 months

PACKAGING

Cans: 12 x 500 ml

COLOUR transparent

MAXI shelf display unit

USE
Holds over 450 sealant and chemical anchor cartridges.

DIMENSIONS
cm 100 x 60 x 220
(width x depth x height)

CODE

MK983503N	Dividers for 100 sealant cartridge shelf unit (1x)
MK692110	Artwork for 100 sealant cartridge shelf unit (1x)
MK983508	Crowner for 100 sealant cartridge shelf unit (1x)
MK841810	Information board (1x)
MK983501	Shelf unit for 100 sealant cartridges (1x)
MK983502	Upright for shelf unit (2x)

(1x): 1 unit to be ordered
(2x): 2 units to be ordered

MINI shelf display unit

USE
Holds over 300 sealant and chemical anchor cartridges.

DIMENSIONS
cm 67 x 40 x 220
(width x depth x height)

CODE

MK983505N	Dividers for 66 sealant cartridge shelf unit (1x)
MK658210	Artwork for 66 sealant cartridge shelf unit (1x)
MK983507	Crowner for 66 sealant cartridge shelf unit (1x)
MK841810	Information board (1x)
MK983504	Shelf unit for 66 sealant cartridges (1x)
MK983502	Upright for shelf unit (2x)

(1x): 1 unit to be ordered
(2x): 2 units to be ordered

Dispenser MICRO

USE
Holds over 56 “similar to silicone” tubes containing sealants and chemical anchors

INGOMBRO
cm 55 x 37 x 57
(width x depth x height)

CODE
MK986401 (1x)

(1x): 1 unit to be ordered

ANALYTICAL INDEX

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