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Admixtures for concrete

High performance and specialisation

Today's concrete production market has become more demanding and requires more precision in terms of managing installation and placing times and when designing a concrete mix's technical performance properties in order to comply with the needs of the construction industry.

For manufacturers of ready-mixed concrete and precast concrete components, it has also become increasingly important to take into consideration both economic and environmental parameters. In order to achieve these parameters, manufacturers need to use a specific mix of innovative products combined with their in-depth technical knowledge and extensive experience in this particular sector.

For more than thirty years, Mapei has been supplying solutions and products in the field of concrete technology to meet the various requirements of its customers, offering both excellent technical support and products with an exceptional level of quality. Our aim is to be a partner not only for our customers, but also for all those involved in the design, planning and control processes of a component, structure made from concrete.

Along with our mission to constantly develop new technologies for our customers, this makes Mapei the "perfect partner" in the concrete industry. As an Admixtures team, we are experts in all areas regarding the use and application of concrete, particularly:

- Self-compacting concrete
- Concrete with high mechanical performance properties and durability
- Concrete for industrial and commercial flooring without joints
- Waterproofing concrete
- Concrete resistant to freezing conditions
- Roller-compacted concrete
- Fibre-reinforced concrete
- Concrete with high initial mechanical properties, both with and without thermal cycles
- Pervious concrete

Choosing the right admixture for concrete

Mapei admixtures for concrete are designed to overcome the most varied challenges encountered during its application. Once the specific application method has been specified and the main parameters of the mix design have been defined, the next step is to select the most appropriate Mapei admixture with the support of a local technical specialist.

Admixtures for high performance

Mapei admixtures for high performance concrete are available on the market as commercially branded products such as **Mapefast**, **Mapetard**, **Mapeplast**, **Mapefluid**, **Dynamon**, **Mapeair** and **Idrocrete**, which are all compliant with EN 934-2 standards. All these products enable concrete of the highest quality to be produced (high durability and high mechanical properties) and are used in the most prestigious projects.

- Mapefast accelerators
- Mapetard retardants
- Mapeair air-entraining admixtures
- Dynamon superplasticisers

Special admixtures

Mapei special admixtures are products specifically developed to overcome specific technical problems in the concrete industry. Using these admixtures means that concrete with a high level of added value can be produced and enables new production technologies to be adopted that exceed current limits. And to this end Mapei is constantly committed to an ongoing improvement project and the constant development of new products and technologies that provide a genuine advantage to the development of the market.

- The **Re-con Line** for the reuse of returned concrete and aggregates
- Mapecure SRA and Expancrete for Mapecrete System technology
- Idrocrete KR 1000 mass crystallising waterproofer
- Viscostar 3K viscosity modifier
- Mapeplast SF microsilica
- Mapeair LA for filler concrete
- Mapeplast UW anti-washout admixtures
- Mapetard SD 2000 hydration stabilisers
- Mapecure SRA shrinkage reducing agent
- Expancrete for expansive, shrinkage-compensating concrete
- Dynamon XTend workability extenders



CE marking for admixtures

Since the admixtures for concrete can have extremely different performances and usage, the Standard has different classification categories, different tests and minimum performance levels for every single admixture type.

CLASSIFICATION	DESCRIPTION	TABLE
WR	Water reducing / plasticising admixture	Table 2
HRWR	High range water reducing / superplasticising admixture	Table 3
WRA	Water retaining admixture	Table 4
AEA	Air entraining admixture	Table 5
SAA	Set accelerating admixture	Table 6
НАА	Hardening accelerating admixture	Table 7
SRA	Set retarding admixture	Table 8
WrA	Water resisting admixture	Table 9
WR + SRA	Set retarding / water reducing / plasticising admixture	Table 10
HRWR + SRA	Set retarding / high range water reducing / superplasticising admixture	Table 11
WR + SAA	Set accelerating / water reducing / plasticising admixture	Table 12
VMA	Viscosifying / modified viscosity admixture	Table 13

Admixtures that also have important secondary functions can also obtain the certification for two or more categories at the same time. Therefore, it is possible to study the effects of admixtures on concrete, when both fresh and hardened.

In order to see whether the products meet the requirements, the specific tests for each type of admixture must be carried out:

- when the certificate is first issued;
- when a new formula or type of admixture is developed;
- when a modification of the formula could significantly influence the admixture's performances;
- when a modification of the raw material could significantly influence the admixture's performances.

The following table lists the classification of **MAPEI** admixtures for concrete, the abbreviations and the Standard table that defines the minimum requirements.

Classification of admixtures for concrete

ADMIXTURES FOR CONCRETE	- EN 943-2	
ADMIXTURES	CLASSIFICATION	TABLE
CHRONOS VF 202	HRWR + SRA	11
CHRONOS VF 204	HRWR + SRA	11
CHRONOS VF 210	HRWR + SRA	11
DYNAMON BT 2	HRWR + SRA	11
DYNAMON BT 4	HRWR	3
DYNAMON EASY 11	HRWR	3
DYNAMON EASY 21	HRWR + SRA	11
DYNAMON EASY 31	HRWR + SRA	11
DYNAMON EW	WR	2
DYNAMON SW	HRWR	3
DYNAMON PW	HRWR	3
DYNAMON FLOOR 10	HRWR + SAA	3+6
DYNAMON FLOOR 15	HRWR+HAA	3+7
DYNAMON FLOOR 20	HRWR	3
DYNAMON FLOOR 25	HRWR	3
DYNAMON HAA	НАА	7
DYNAMON NRG 1010	HRWR + HAA	3 + 7
DYNAMON NRG 1012	HRWR + HAA	3 + 7
DYNAMON NRG 1014	HRWR + HAA	3 + 7
DYNAMON NRG 1015	HRWR + HAA	3 + 7
DYNAMON NRG 1015 SV	HRWR + HAA	3+7
DYNAMON NRG 1018	HRWR + HAA	3+7
DYNAMON NRG 1020	HRWR + HAA	3+7
DYNAMON NRG 1022	HRWR + HAA	3+7
DYNAMON NRG 1024	HRWR + HAA	3+7
DYNAMON NRG 1030	HRWR + HAA	3+7
DYNAMON NRG 1035	HRWR + HAA	3+7
DYNAMON NRG 1037	HRWR + HAA	3 + 7
DYNAMON NRG 1039	HRWR + HAA	3 + 7
DYNAMON SP1	HRWR + HAA	3 + 7
DYNAMON SR 1	HRWR	3
DYNAMON SR 2	HRWR + SRA	11
DYNAMON SR 3	HRWR + SRA	11
DYNAMON SR 4	HRWR + SRA	11
DYNAMON SR 21	HRWR	3
DYNAMON SR 41	HRWR + SRA	11
DYNAMON SR 51	HRWR	3
DYNAMON SR 52	HRWR + SRA	11
DYNAMON SR 54	HRWR	3
DYNAMON SR 56	HRWR + SRA	11
DYNAMON SR 58	HRWR	3
DYNAMON SR 73	HRWR +SRA	11
DYNAMON SR 912	HRWR + SRA	11
DYNAMON SR 914	HRWR	3
DYNAMON SR 916	HRWR + SRA	11
DYNAMON SX	HRWR	3
DYNAMON SX 12	HRWR + SRA + WRA	11 + 4
DYNAMON SX 14	HRWR + SRA + WRA	11 + 4
DYNAMON SX 22	HRWR + SRA	11
DYNAMON SX 24	HRWR	3
DYNAMON SX 28	HRWR + HAA	3+7
DYNAMON SX 32	HRWR + SRA	11
DYNAMON SX 34	HRWR	3
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ADMIXTURES FOR CONCRETE	- EN 943-2	
ADMIXTURES	CLASSIFICATION	TABLE
DYNAMON SX 42	HRWR + SRA	11
DYNAMON SX 44	HRWR	3
DYNAMON XTEND W 100 N	HRWR	3
DYNAMON XTEND W 100 R	HRWR + SRA	11
DYNAMON XTEND W 200 N	HRWR	3
DYNAMON XTEND W 202 N	HRWR	3
DYNAMON XTEND W 202 R	HRWR + SRA	11
DYNAMON XTEND W 200 R	HRWR + SRA	11
DYNAMON XTEND W 300 N	HRWR	3
DYNAMON XTEND W 300 R	HRWR + SRA	11
DYNAMON XTEND W 400 N	HRWR	3
DYNAMON XTEND W 400 R	HRWR + SRA	11
DYNAMON XTEND W 500 N	HRWR	3
DYNAMON XTEND W 500 R	HRWR + SRA	11
EXPANCRETE PLUS	WR	2
IDROCRETE DM	WRA	9
IDROCRETE S	WRA	9
IDROCRETE HP	WRA	9
IDROCRETE KR 1000	WRA	9
MAPEAIR AE 1	AEA	5
MAPEAIR AE 2	AEA	5
MAPEAIR AE 10	AEA	5
MAPEAIR AE 20	AEA	5
MAPECURE SRA 20	WR	2
MAPEFAST C (former Antifreeze liquid)	НАА	7
MAPEFAST CF/L (former Antifreeze S liquid)	НАА	7
MAPEFAST CF/P (former Antifreeze S powder)	НАА	7
MAPEFAST ULTRA	HAA	7
MAPEFLUID N100	HRWR + SRA	11
MAPEFLUID N200	HRWR	3
MAPEFLUID PZ500	HRWR + WrA	3 + 9
MAPEFLUID PZ504	HRWR + SRA + WrA	11 + 9
MAPEFLUID R104	HRWR + SRA	11
MAPEPLAST N10	WR	2
MAPETARD	SRA	8
MAPETARD CBS1	WR + SRA	2+8
MAPETARD PLUS	SRA	8
MAPETARD SD 2000	SRA	8
RE-CON AGG 100	WR	2
RE-CON AGG 200	HRWR	3
VIBROMIX C1	WR + HAA	2+7
VIBROMIX L1	WR	2
VIBROMIX S	WRA	9
VISCOFLUID SCC/10	VMA	13
VISCOSTAR 3K	VMA	13
ADMIXTURES FOR CONCRETE	- EN 943-4	
ADMIXTURES	CLASSIFICATION	TABLE
CABLEJET		1
EXPANFLUID		1



Product classification Commercial name and description Application technology • Concrete in cold climates Accelerators (EN 934-2 T.7) Mapefast C Setting accelerator with chlorides for not Mapei concrete accelerators are • Concrete resistant to reinforced concrete designed to reduce setting times freezing conditions and increase the development of the Mapefast CF/L mechanical properties of concrete • Concrete rapid traffic Chloride-free hardening accelerator for in the short term, particularly at low reopening reinforced concrete temperatures, in order to accelerate finishing operations. Thanks to the • Ready-mixed concrete **Mapefast CF/P** rapid development of the concrete's Precast/pre-stressed Chloride-free powdered hardening mechanical properties, these accelerator for reinforced concrete concrete accelerators allow formwork to be stripped quickly to optimise overall **Dynamon HAA** construction times and maximise Chloride-free hardening accelerator Mapei accelerators may also be used for reinforced concrete with high initial to increase concrete's resistance to mechanical strength the action of freezing conditions and **Mapefast Ultra** allow concrete to be casted when the surrounding temperature is lower than Chloride-free hardening accelerator +10°C. for reinforced concrete with high initial mechanical strength, including at low temperatures **Air-entraining admixtures** • Concrete resistant to Mapeair AE 1 freeze-thaw cycles (EN 934-2 T.5) Natural air-entraining for concrete resistant to freeze-thaw cycles Aerating admixtures from the Mapeair • Ready-mixed concrete range are designed to have better Mapeair AE 2 resistance to freeze-thaw cycles and Precast concrete/ Synthetic air-entraining for concrete resistant to produce lightweight concrete and pre-stressed concrete to freeze-thaw cycles fluid fillers. • Lightweight concrete Mapeair AE 10 • Fluid filler concrete and Low concentration natural air-entraining for mortar concrete resistant to freeze-thaw cycles Mapeair AE 20 Low concentration synthetic air-entraining for concrete resistant to freeze-thaw cycles Mapeair LA/L Liquid foam-forming air-entraining for lightweight concrete and fluid fillers Mapeair LA/P Powdered foam-forming air-entraining for lightweight concrete and fluid fillers • Concrete in hot climates Retardants (EN 934-2 T.8) Mapetard Set retarding admixture Retarding admixtures from the • Pumped concrete Mapetard range allow setting times of **Mapetard Plus** concrete to be regulated to improve • Concrete without Highly concentrated set retarding admixture casting and finishing operations in hot construction joints climates. **Mapetard SD 2000** • Roller-compacted concrete Set retarding admixture **Mapetard CBS1**

Set retarding admixture with a plasticising

effect for RCC

Product classification

Plasticisers (EN 934-2 T.2)

Multi-purpose plasticisers with medium water reduction capacity (EN 934-2 T.2,3,11)

Mapei multi-purpose plasticisers are designed for use in standard concrete

Commercial name and description

Mapeplast N10

Plasticising admixture with good maintenance of workability

Dynamon Easy 11

Polycarboxylate ether-based multi-purpose admixture for casting in cold climates

Dynamon Easy 21

Polycarboxylate ether-based multi-purpose retarding admixture

Dynamon Easy 31

Polycarboxylate ether-based multi-purpose admixture for casting in hot climates

Mapefluid R104

Naphthalene-based multi-purpose superplasticising retarding admixture

Mapefluid N100

Naphthalene-based multi-purpose superplasticising admixture

Application technology

- Concrete from low consistency classes
- Non-structural precast concrete
- Ready-mixed concrete for traditional casting

Polycarboxylate ether-based superplasticisers for readymixed concrete with extended workability (EN 934-2 T.11)

The Mapei line of polycarboxylatebased superplasticising admixtures for ready-mixed concrete are specifically designed for concrete that requires long transport times and, as a result, extended workability.

Dynamon XTend W is the new range of superplasticising admixtures developed in the Mapei Research Centre to provide a concrete solution to all the technical requirements and transport problems connected with the production and delivery of readymixed concrete.

Dynamon XTend W100 R

Polyhedral superplasticiser with good water reducing properties and good maintenance of workability

Dynamon XTend W200 R

Polyhedral superplasticiser with good water reducing properties and good maintenance of workability

Dynamon XTend W202 R

Polyhedral superplasticiser with good water reducing properties and good maintenance of workability

Dynamon XTend W300 R

Highly effective superplasticiser for all concrete mixes with extended maintenance of workability

Dynamon XTend W400 R

Highly effective superplasticiser for all concrete mixes with extended maintenance of workability

Dynamon XTend W500 R

Highly effective superplasticiser for all concrete mixes with extended maintenance of workability

Dynamon SR 41

Superplasticising retardant for low water/ cement ratio with excellent maintenance of workability

- Ready-mixed concrete
- Concrete in hot climates
- Concrete with long delivery times
- Concrete for extended concrete casting



Product classification

Polycarboxylate ether-based superplasticisers for readymixed concrete with extended workability (EN 934-2 T.11)

The Mapei line of polycarboxylatebased superplasticising admixtures for ready-mixed concrete are specifically designed for concrete that requires long transport times and, as a result, extended workability.

Dynamon XTend W is the new range of superplasticising admixtures developed in the Mapei Research Centre to provide a concrete solution to all the technical requirements and transport problems connected with the production and delivery of readymixed concrete.

Commercial name and description

Dynamon SR 52

Superplasticising retardant for low water/ cement ratio with excellent maintenance of workability

Dynamon BT2

Superplasticising retardant for concrete with little loss in workability

Dynamon SR 56

Superplasticising retardant for low water/ cement ratio with excellent maintenance of workability

Dynamon SR 912

Superplasticising retardant for low water/ cement ratio with excellent maintenance of workability

Dynamon SR 916

Superplasticiser for low water/cement ratio with excellent maintenance of workability

Dynamon SX 22

Superplasticising retardant for low water/ cement ratio with excellent maintenance of workability

Dynamon SX 32

Superplasticising retardant for low water/ cement ratio with excellent maintenance of workability

Dynamon SX 42

Superplasticising retardant for low water/ cement ratio with excellent maintenance of workability

Dynamon EW

Controlled release kinetics profile admixture to extend workability

Dynamon SW

Controlled release kinetics profile admixture to extend workability

Dynamon PW

Controlled release kinetics profile admixture to extend workability

Polycarboxylate ether-based superplasticiser for concrete used to make floors (EN 934-2 T.3,11,4)

To meet the requirements and overcome problems associated with concrete used to make floors for the industrial and commercial sectors,

Dynamon Floor 10

Highly effective superplasticising set accelerator for internal and external floors at low temperatures

Dynamon Floor 15

Acrylic-based superplasticising accelerator for concrete floors

- Ready-mixed concrete
- Concrete in hot climates
- Concrete with long delivery times

Application technology

• Concrete for extended concrete casting

- Industrial floors
- Commercial floors
- Airport runways and road surfaces

Product classification

Mapei has developed a range of superplasticising admixtures to optimise casting and finishing operations in various environmental conditions and by controlling floating times of the surface of concrete. Admixtures from the **Dynamon Floor** line are integral components of the **Mapecrete System** for industrial flooring without contraction joints and may be used in combination with **Mapefibre** polymer fibres to make

Commercial name and description

Dynamon Floor 20

Superplasticising set accelerator for internal and external floors in hot weather

Dynamon Floor 25

Acrylic-based superplasticiser for concrete industrial floors

Dynamon SX 14

Superplasticiser for low water/cement ratio with good maintenance of workability; integrator for fines

Application technology

- Industrial floors
- Commercial floors
- Airport runways and road surfaces

Polycarboxylate ether-based superplasticiser for high durability and high mechanical properties (EN 934-2 T.3)

fibre-reinforced concrete.

To make structures that guarantee the highest standards of quality in terms of the durability of concrete, Mapei proposes a range of polycarboxylate-based superplasticising admixtures from the **Dynamon SR** and **Dynamon SX** ranges.

These admixtures have special formulations which make them particularly suitable for producing self-compacting concrete.

Dynamon SR 3

Superplasticiser for low water/cement ratio with excellent maintenance of workability

Dynamon SR 1

Neutral superplasticiser for low water/ cement ratio with good maintenance of workability

Dynamon SR 21

Superplasticiser for low water/cement ratio with good maintenance of workability

Dynamon SX

Superplasticiser for low water/cement ratio with good maintenance of workability

Dynamon SR 51

Superplasticiser for low water/cement ratio with good maintenance of workability

Dynamon SX 12

Superplasticising retardant for low water/cement ratio with excellent maintenance of workability

Dynamon SR 54

Superplasticiser for low water/cement ratio with good maintenance of workability

Dynamon SR 58

Neutral superplasticiser for low water/ cement ratio with good maintenance of workability

Dynamon SR 914

Superplasticiser for low water/cement ratio with good maintenance of workability

Dvnamon SX 24

Superplasticiser for low water/cement ratio with good maintenance of workability

• Concrete for infrastructures

- Concrete with high durability
- High-strength concrete
- Self-compacting concrete



Polycarboxylate ether-based

Product classification

superplasticiser for high durability and high mechanical properties (EN 934-2 T.3)

To make structures that guarantee the highest standards of quality in terms of the durability of concrete, Mapei proposes a range of polycarboxylate-based superplasticising admixtures from the **Dynamon SR** and

Dynamon SX ranges.

These admixtures have special formulations which make them particularly suitable for producing self-compacting concrete.

Commercial name and description

Dynamon SX 28

Superplasticising accelerator for ready-mixed concrete with a high reduction of mixing water

Dynamon SX 34

Neutral superplasticiser for low water/cement ratio with good maintenance of workability; integrator for fines

Dynamon SX 44

Neutral superplasticiser for low water/ cement ratio with good maintenance of workability

Dynamon BT4

Superplasticiser for ready-mixed concrete

Dynamon SR 73

Superplasticiser for ready-mixed concrete with extended maintenance of workability

Dynamon XTend W100 N

Polyhedral superplasticiser with good water reducing properties

Dynamon XTend W200 N

Polyhedral superplasticiser with good water reducing properties

Dynamon XTend W202 N

Workability extending superplasticiser in hot weather (up to 2 hours) without using delaying setting times

Dynamon XTend W300 N

Highly effective superplasticiser for all concrete mixes

Dynamon XTend W400 N

Highly effective superplasticiser for all concrete mixes

Dynamon XTend W500 N

Highly effective superplasticiser for all concrete mixes

Application technology

- Concrete for infrastructures
- Concrete with high durability
- High-strength concrete
- Self-compacting concrete

Plasticisers for extruded and vibro-compressed concrete (EN 934-2 T.2,7,9)

Vibromix is the Mapei range of admixtures specifically designed to optimise the production phases of concrete components.

Vibromix C1

High-quality plasticising hardening accelerator

Vibromix L1

Plasticiser for screed-consistency concrete

Vibromix S

Highly effective water-resisting plasticiser for components with no water absorption and no efflorescence

- Screed consistency concrete
- Concrete blocks
- Self-locking blocks
- Manholes
- Roadside kerbing
- Pipes

Product classification

Superplasticizers for normal and pre-stressed precast elements (EN 934-2 T.3,7)

To make precast elements from normal reinforced concrete and prestressed reinforced concrete, Mapei has developed the **Dynamon NRG** line of polycarboxylate ether-based superplasticising admixtures. The superplasticisers from the **Dynamon NRG** line are designed to progressively and completely eliminate steam curing and, as a result, increase the durability of structures made from

The performance characteristics of **Dynamon NRG** admixtures make them particularly suitable for use in the production of self-compacting concrete, in that they are able to guarantee a high degree of fluidity of the mix without the negative effects associated with the excessive viscosity of fresh concrete.

this type of concrete.

Commercial name and description

Dynamon NRG 1010

Superplasticising accelerator for extremely quick stripping operations (6-8 hours) without steam curing

Dynamon NRG 1012

Superplasticising accelerator for quick stripping operations (16-18 hours) without steam curing

Dynamon NRG 1014

Superplasticising accelerator for quick stripping operations (16-18 hours) without steam curing and viscosifying agent for SCC

Dynamon NRG 1015

Superplasticising hardening accelerator for precast concrete

Dynamon NRG 1015 SV

Superplasticising hardening accelerator for precast concrete

Dvnamon NRG 1018

Superplasticising hardening accelerator for quick-stripping of precast concrete

Dynamon NRG 1020

Highly effective superplasticising accelerator for extremely quick stripping operations (6-8 hours) without steam curing

Dynamon NRG 1022

Superplasticiser with good maintenance of workability and quick stripping operations without steam curing

Dynamon NRG 1024

Superplasticising hardening accelerator and integrator of fine aggregates for precast concrete

Dynamon NRG 1030

Superplasticiser for precast concrete

Dvnamon NRG 1035

Superplasticiser for precast concrete with high development of mechanical properties at early strength

Dynamon NRG 1037

Superplasticiser for precast concrete with extended maintenance of workability

Dynamon NRG 1039

Superplasticiser for precast concrete with very high development of mechanical properties at early strength

Application technology

- Structural precast concrete
- Non-structural precast concrete
- Panels and pillars
- Roofing tiles
- Pre-stressed beams
- Precast segments for road and rail tunnels



Product classification	Commercial name and description	Application technology
Superplasticizers for normal and pre-stressed precast elements (EN 934-2 T.3,7) To make precast elements from normal reinforced concrete and pre-stressed reinforced concrete, Mapei has developed the Dynamon NRG line of polycarboxylate ether-based superplasticising admixtures. The superplasticisers from the Dynamon NRG line are designed to progressively and completely eliminate steam curing and, as a result, increase the durability of structures made from this type of concrete. The performance characteristics of Dynamon NRG admixtures make them particularly suitable for use in the production of self-compacting	Dynamon SP 1 Superplasticiser for very low water/cement ratio with a good maintenance of workability also suitable for steam curing Mapefluid N 200 Naphthalene-based superplasticiser for concrete	 Structural precast concrete Non-structural precast concrete Panels and pillars Roofing tiles Pre-stressed beams Precast segments for road and rail tunnels
concrete, in that they are able to guarantee a high degree of fluidity of the mix without the negative effects associated with the excessive viscosity of fresh concrete.		

Special products for concrete

Product classification	Commercial name and description	Application technology
Viscosity modifier (EN 934-2 T.13) Mapei viscosity modifying admixtures are designed to control surface bleeding and segregation in self-compacting concrete mixes.	Viscostar 3K Multi-purpose viscosifying admixture for the production of self-compacting concrete without fillers Viscofluid SCC/10 Viscosifying admixture for the production of self-compacting concrete	Self-compacting concreteConcrete low in finesPumped concrete
Anti-washout admixtures These admixtures permit concrete to be placed in running water without the risk of leaching or losing material.	Mapeplast UW Powdered cohesion-inducing admixture for placing underwater concrete with no leaching	Underwater concrete
Mass water-resisting admixtures (EN 934-2 T.9) For the production of concrete blocks and self-locking blocks, Mapei has	Idrocrete DM Water-resisting admixture for concrete and mortar with low water absorption and no efflorescence	Concrete blocksSelf-locking blocksConcrete with low water absorption
created a specific line of products that drastically reduce water absorption and efflorescence phenomenon	Idrocrete HP Liquid water-resisting admixture for concrete	
to guarantee uniform colour and resistance to bad weather conditions.	Idrocrete S Water-resisting admixture for concrete and mortar with low water absorption and no efflorescence	
Mass crystallising	Idrocrete KR 1000	Concrete for foundations
waterproofing admixtures (EN 934-2 T.9) Admixtures to reduce the permeability of concrete through a process of secondary crystallisation within the pores of concrete.	Powdered crystallising admixture for waterproof concrete	 Concrete for retaining walls Concrete for storage tanks Concrete for white water basins
(EN 934-2 T.9) Admixtures to reduce the permeability of concrete through a process of secondary crystallisation within the		Concrete for storage tanksConcrete for white water
(EN 934-2 T.9) Admixtures to reduce the permeability of concrete through a process of secondary crystallisation within the pores of concrete. Air-detraining admixtures To improve the finish of exposed concrete Pozzolanic mineral additives Mineral-based admixtures to improve the performance characteristics and	waterproof concrete Mapeair Zero	 Concrete for storage tanks Concrete for white water basins Exposed concrete Concrete with excess
(EN 934-2 T.9) Admixtures to reduce the permeability of concrete through a process of secondary crystallisation within the pores of concrete. Air-detraining admixtures To improve the finish of exposed concrete Pozzolanic mineral additives Mineral-based admixtures to improve	Mapeair Zero Air-detraining admixture for concrete Mapeplast SF Powdered Pozzolanic silica fume-based	 Concrete for storage tanks Concrete for white water basins Exposed concrete Concrete with excess entrained air Concrete used for bulk casting
(EN 934-2 T.9) Admixtures to reduce the permeability of concrete through a process of secondary crystallisation within the pores of concrete. Air-detraining admixtures To improve the finish of exposed concrete Pozzolanic mineral additives Mineral-based admixtures to improve the performance characteristics and	Mapeair Zero Air-detraining admixture for concrete Mapeplast SF Powdered Pozzolanic silica fume-based component for concrete mixes Mapeplast PZ300 Powdered high Pozzolanic additive made	 Concrete for storage tanks Concrete for white water basins Exposed concrete Concrete with excess entrained air Concrete used for bulk casting Highly durable concrete

Special products for concrete

Product classification	Commercial name and description	Application technology
Expansive admixtures Powdered admixtures that allows hygrometric shrinkage compensation through a process of expansion during its initial hardening phase. Expancrete admixtures are part of the Mapecrete System for industrial concrete flooring without contraction joints.	Expancrete Powdered expansion agent for shrinkage-compensating concrete Expancrete Plus Powdered expansive agent with a slight plasticising effect for shrinkage-compensating concrete Expanfluid Powdered expansive admixture for injected slurry Cablejet Powdered plasticising and expansive	 Shrinkage-compensating concrete Concrete for renovation work Concrete for industrial flooring without joints made using Mapecrete System technology
Shrinkage-reducing admixtures	admixture for fluid and no-shrinkage injected slurry Mapecure SRA	Concrete with low
Liquid admixtures that drastically reduce hygrometric shrinkage by acting on the surface tension of water	Admixture to reduce hydraulic shrinkage and the formation of cracks in shrinkage-compensating mortar and concrete	 Concrete with low hygrometric shrinkage Concrete for industrial flooring without joints made using Mapecrete System technology Concrete at risk of shrinkage cracks formation
contained within capillary pores. Admixtures from the Mapecure SRA line are part of the Mapecrete System for industrial concrete flooring without contraction joints.	Mapecure SRA 25 Admixture to reduce hydraulic shrinkage and the formation of cracks for shrinkage-compensating concrete and floors without joints	
	Mapecure SRA 20 Admixture with a slight plasticising effect to reduce hygrometric shrinkage and the formation of cracks for shrinkage-compensating concrete and flooring without joints	
Admixtures to aid pumping of concrete Admixtures to increase the viscosity of mixing water contained within concrete and improve its pumpability.	Mapeplast PMX Admixture to aid pumping of concrete	Pumped concreteConcrete with a low fine aggregate content
Admixtures for pervious concrete Admixtures to improve adhesion	Mapecrete Drain L Liquid admixture for making pervious concrete	Concrete for footpaths Concrete for cycle tracks and lanes
between cement paste and aggregates	Mapecrete Drain P Powdered admixture for making pervious concrete	 Concrete for sub-layers for roads Concrete for permeable blocks Road gutters
Polymeric fibres Synthetic micro and macro fibres to reduce the effect of plastic shrinkage and to strengthen structures to	Mapefibre NS12 Anti-shrinkage polypropylene fibres to reduce cracking	Fibre-reinforced concreteConcrete at risk of cracking due to plastic shrinkage
and to strengthen structures to improve their post-cracking residual flexural tensile strength	Mapefibre NS18 Anti-shrinkage polypropylene fibres to reduce cracking	

Product classification	Commercial name and description	Application technology
Polymer fibres Synthetic micro and macro fibres to reduce the effect of plastic shrinkage and to strengthen structures to	Mapefibre ST30 30 mm structural polymer fibres used as a substitute for reinforcing mesh in traditional flooring	 Industrial and commercial flooring Concrete used in precast industry
improve their post-cracking residual flexural tensile strength	Mapefibre ST42 42 mm structural polymer fibres used as a substitute for reinforcing mesh in traditional floors	
Screed products Line of admixtures and synthetic fibres specific for making cementitious screeds.	Mapescreed 704 Special acrylic plasticising and water- reducing admixture for heating and cooling cementitious screeds	Cementitious screeds
	Mapescreed 710 Admixture for ready-mixed and site-mixed high-strength cementitious screeds	
	Mapescreed 720 Admixture for ready-mixed and site-mixed high-strength cementitious screeds, including after brief curing cycles	
	Mapescreed HF Gel Gel admixture for ready-mixed and site- mixed high-strength cementitious screeds with low hygrometric shrinkage	
	Mapefibre Screed 24 Polymer fibres for screeds	
Products for sustainable concrete A line of admixtures specific for	Re-Con Zero Two-component powdered component for recovering all leftover concrete	 Recovering returned concrete from jobsites Concrete with recycled
reusing leftover concrete returned from site and the production of sustainable concrete by using recycled aggregates and aggregates with a high content of fines	Re-con Zero Evo Two-component powdered component for recovering all leftover concrete from mixer trucks	aggregatesRecovering water used to wash mixer-trucks
	Mapeclean Recycler Admixture to recover water from the mixer-truck clreaning process	Concrete with clay aggregates
	Re-con Zero Booster Granulation aid for returned concrete	
	Re-con Agg 100 Absorption-inhibiting plasticising admixture for sustainable concrete containing recycled aggregates	
	Re-con Agg 200 High water-reducing and absorption-inhibiting plasticising admixture for sustainable concrete containing recycled aggregates	

Special products for concrete

Product classification	Commercial name and description	Application technology
Curing products Film-forming products applied to the surface of wet concrete to reduce water evaporation and improve curing.	Mapecure E Film-forming curing agent in water emulsion to protect the surface of concrete against rapid evaporation of mixing water	Concrete with a highly exposed areaIndustrial flooring
	Mapecure S Solvent-based film-forming curing agent to protect the surface of concrete against rapid evaporation of mixing water	FoundationsRoad surfacesRoad surfaces in airports
	Mapecure WG Water-based film-forming curing agent for mortar and concrete	
	Mapecure E 30 Anti-evaporation agent in watery emulsion to prevent the surface of concrete drying too quickly when exposed to sunlight and wind	
Surface finishing aids	Mapecrete Film	Industrial flooring
Film-forming admixture to improve surface finishing operations during hot	Evaporation retarding agent and surface finishing aid	Road surfaces
and windy weather.		Road surfaces in airports
Stripping agents for concrete A complete line of products designed and developed by Mapei to supply a solution to problems associated with stripping concrete in the precast concrete industry and on site. The products from the Mapeform Eco line in particular drastically improve the surface finish of fair-faced concrete.	DMA 1000 Emulsifying form-release agent for all types of wooden formwork	 Precast concrete industry Jobsites Fair-faced concrete Concrete components
	DMA 2000 Multi-purpose chemical-physical action form-release agent	
	Mapeform 1200 Form-release agent specific for rapid stripping of formwork	
	Mapeform 1400 Multi-purpose form-release agent for hot formwork	
	Mapeform 1500 Multi-purpose low viscosity chemical- physical action form-release agent	
	Mapeform Eco 31 Chemical-action vegetable oil-based form- release solution in water emulsion to improve the finish of exposed concrete	
	Mapeform Eco Plus Chemical-action synthetic oil-based form- release solution in water emulsion to improve the finish of exposed concrete	
	Mapeform Eco Oil Multi-purpose vegetable oil-based form- release solution in water emulsion for metal and plastic formwork suitable for steam curing	

Product classification	Commercial name and description	Application technology
Stripping agents for concrete A complete line of products designed and developed by Mapei to supply a	Mapeform Eco Oil LV Low viscosity vegetable oil-based form- releasing agent	Precast concrete industryJobsites
solution to problems associated with stripping concrete in the precast concrete industry and on site. The products from the Mapeform Eco line in particular drastically improve the surface finish of fair-faced concrete.	Mapeform W60 Ready-to-use universal form-releasing agent for any type of formwork	Fair-faced concreteConcrete components

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