Repair System for Underground Structures

WATERPROOFING PRODUCTS

Technical documentation
From the technical area menu you can view the technical documentation divided per product line and type of document.

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REPAIR SYSTEM FOR UNDERGROUND STRUCTURES

PRODUCTS

Lamposilex
Ultra rapid-setting and hardening hydraulic binder for stopping water leaks

Mapeproof Mastic
 Bentonite grout made from natural sodium bentonite and plasticising admixtures

Mapelastic Foundation
Two-component elastic cementitious mortar for waterproofing concrete surfaces subject to both positive and negative water pressure

Idrostop Soft
Highly flexible, hydro-expansive bentonite jointing strip in natural sodium bentonite and butyl rubber

Mapeproof
Waterproofing bentonite sheet for vertical and horizontal surfaces on underground structures

APPLICATION METHOD

PROCEDURE
1. Remove concrete down to a depth of 8 cm from around detective joints, penetration, gravel clusters and cracks;
2. If water seeps through constantly, seal it off with Lamposilex;
3. Seal the edge of the Lamposilex with Mapeproof Swell and then repair the concrete previously removed with a suitable product from the Mapegrout range;
4. Waterproof the areas using Mapelastic Foundation after applying a coat of Primer 3296 on the vertical and horizontal surfaces;
5. As an alternative to Mapelastic Foundation, and if there is enough space to install a new floor slab, waterproof the horizontal surfaces with Mapeproof making sure the fillets between the Mapelastic Foundation applied on the walls are sealed with Mapeproof Mastic and Idrostop Soft;
6. Position the connectors used to anchor the new structures to the existing ones. Anchor them in place with Mapifix Ve SF and seal them with Mapeproof Mastic where they penetrate the bentonite sheet and with Mapeproof Swell where the cementitious waterproofing product is penetrated;
7. Place the rebar for the new concrete slab in position;
8. When the new structure is fully cured the render may be applied. To guarantee maximum comfort in the buildings we recommend using products from the Mape-Antique or Pormap lines and to finish them off with products from the Silancolor or Silhexcolor range.

ADVENTAGES

Lamposilex
• Ultra-rapid setting;
• High mechanical strength;
• Waterproof and water-repellent

Mapeproof Mastic
• Ready to use;
• Simple to use;
• Rapid application

Mapelastic Foundation
• Simple quick application;
• Improved adhesion to structures using Primer 3296;
• Resistant to positive and negative hydrostatic pressure;
• No reinforcement required

Idrostop Soft
• Simple quick application;
• Perfect adhesion to concrete structures using Ultrabond MS Rapid;
• Flexible;
• High moisture-expanding rate

Mapeproof
• Simple application;
• Perfect adhesion to concrete structures;
• Self-sealing
**PRODUCTS**

**Lamposilex**
Ultra rapid-setting and hardening hydraulic binder for stopping water leaks

**Advantages**
- Ultra-rapid setting;
- High mechanical strength;
- Waterproof and water-repellent

**Mapeproof Mastic**
Bentonite grout made from natural sodium bentonite and plasticising admixtures

**Advantages**
- Ready to use;
- Simple to use;
- Rapid application

**Mapelastic Foundation**
Two-component elastic cementitious mortar for waterproofing concrete surfaces subject to both positive and negative water pressure

**Advantages**
- Simple quick application;
- Improved adhesion to structures using PRIMER 3296;
- Resistant to positive and negative hydrostatic pressure;
- No reinforcement required

**Idrostop Soft**
Highly flexible, hydro-expansive bentonite jointing strip in natural sodium bentonite and butyl rubber

**Advantages**
- Simple quick application;
- Perfect adhesion to concrete structures using ULTRABOND MS RAPID;
- Flexible;
- High moisture-expanding rate

**Mapeproof**
Waterproofing bentonite sheet for vertical and horizontal surfaces on underground structures

**Advantages**
- Simple application;
- Perfect adhesion to concrete structures;
- Self-sealing

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**PROCEDURE**

1. Remove concrete down to a depth of 8 cm from around detective joints, penetration, gravel clusters and cracks;
2. If water seeps through constantly, seal it off with LAMPOSILEX;
3. Seal the edge of the LAMPOSILEX with MAPEPROOF SWELL and then repair the concrete previously removed with a suitable product from the MAPEGROUT range;
4. Waterproof the areas using MAPELASTIC FOUNDATION after applying a coat of PRIMER 3296 on the vertical and horizontal surfaces;
5. As an alternative to MAPELASTIC FOUNDATION, and if there is enough space to install a new floor slab, waterproof the horizontal surfaces with MAPEPROOF making sure the fillets between the MAPELASTIC FOUNDATION applied on the walls are sealed with MAPEPROOF MASTIC and IDROSTOP SOFT;
6. Position the connectors used to anchor the new structures to the existing ones. Anchor them in place with MAPEFIX VE SF and seal them with MAPEPROOF MASTIC where they penetrate the bentonite sheet and with MAPEPROOF SWELL where the cementitious waterproofing product is penetrated;
7. Place the rebar for the new concrete slab in position;
8. When the new structure is fully cured the render may be applied. To guarantee maximum comfort in the buildings we recommend using products from the MAPE-ANTIQUA or POROMAP lines and to finish them off with products from the SILANCOLOR or SILEXCOLOR range.
REPAIR SYSTEM FOR UNDERGROUND STRUCTURES

PRODUCTS

**Lamposilex**
Ultra rapid-setting and hardening hydraulic binder for stopping water leaks

**ADVENTAGES**
- Ultra-rapid setting;
- High mechanical strength;
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**Mapeproof Mastic**
Bentonite grout made from natural sodium bentonite and plasticising admixtures

**ADVENTAGES**
- Ready to use;
- Simple to use;
- Rapid application

**Mapelastic Foundation**
Two-component elastic cementitious mortar for waterproofing concrete surfaces subject to both positive and negative water pressure

**ADVENTAGES**
- Simple quick application;
- Improved adhesion to structures using PRIMER 3296;
- Resistant to positive and negative hydrostatic pressure;
- No reinforcement required

**Idrostop Soft**
Highly flexible, hydro-expansive bentonite jointing strip in natural sodium bentonite and butyl rubber

**ADVENTAGES**
- Simple quick application;
- Perfect adhesion to concrete structures using ULTRABOND MS RAPID;
- Flexible;
- High moisture-expanding rate

**Mapeproof**
Waterproofing bentonite sheet for vertical and horizontal surfaces on underground structures

**ADVENTAGES**
- Simple application;
- Perfect adhesion to concrete structures;
- Self-sealing

APPLICATION METHOD

**PROCEDURE**
1. Remove concrete down to a depth of 8 cm from around detective joints, penetration, gravel clusters and cracks;
2. If water seeps through constantly, seal it off with **Lamposilex**;
3. Seal the edge of the **Lamposilex** with **Mapeproof Swell** and then repair the concrete previously removed with a suitable product from the **Mapegrout** range;
4. Waterproof the areas using **Mapelastic Foundation** after applying a coat of PRIMER 3296 on the vertical and horizontal surfaces;
5. As an alternative to **Mapelastic Foundation**, and if there is enough space to install a new floor slab, waterproof the horizontal surfaces with **Mapeproof** making sure the fillets between the **Mapelastic Foundation** applied on the walls are sealed with **Mapeproof Mastic** and **Idrostop Soft**;
6. Position the connectors used to anchor the new structures to the existing ones. Anchor them in place with **Mapefix Ve SF** and seal them with **Mapeproof Mastic** where they penetrate the bentonite sheet and with **Mapeproof Swell** where the cementitious waterproofing product is penetrated;
7. Place the rebar for the new concrete slab in position;
8. When the new structure is fully cured the render may be applied. To guarantee maximum comfort in the buildings we recommend using products from the **Mape-Antique** or **Poromap** lines and to finish them off with products from the **Silancolor** or **Silexcolor** range.
Lamposilex
Ultra rapid-setting and hardening hydraulic binder for stopping water leaks
ADVANTAGES
- Ultra-rapid setting;
- High mechanical strength;
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ADVANTAGES
- Simple quick application;
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Mapeproof
Waterproofing bentonite sheet for vertical and horizontal surfaces on underground structures
ADVANTAGES
- Simple application;
- Perfect adhesion to concrete structures;
- Self-sealing

PROCEDURE
1. Remove concrete down to a depth of 8 cm from around detective joints, penetration, gravel clusters and cracks;
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