

Flexible two component waterproofing mortar

DOMOLASTIC is a two component flexible waterproofing mortar. It consists of the component A: a mixture of liquid synthetic resins and of the component B: powder, a mixture of inert fillers selected materials. It offers unique advantages for high waterproofing demands.

Field of application

DOMOLASTIC is suitable for application on:

- Roofs and terraces
- Old and new constructions
- Outdoor & indoor spaces
- Horizontal & vertical surfaces below and above the ground
- Terraces with high accessibility demands
- Beneath ceramic tiling
- Garages, parking, ramps
- Biological treatment, reservoirs, ponds
- Foundations, supports, retaining walls
- Water pools, wells, pipes, jardinieres
- Basements, tunnels, elevator shafts

- Applied in combination with thermal insulation boards (EPS, XPS) for both thermal insulation and waterproofing of roofs and terraces.

Method of use

Substrate condition:

The surface application must be clean without any loose materials. Also, the surface should be well wetted before the application but free of any water puddles. During application, the substrate temperature must be between +5°C and +35°C. Outdoor applications should be take place on morning hours during the summer months, so that the substrate temperature does not rise above 35°C.

Mixing:

Mixing ratio:

A (liquid):B (powder) 1:2.6 w/w

For application with trowel, mixing ratio:

A (liquid):B (powder) 1:3.5 w/w (white, grey, tile red)

A (liquid):B (powder) 1:3.0 w/w (sky blue)

Pour about 80% of the component A (liquid) into an empty can.

Add slowly the component B (powder).

Stir constantly and uninterruptedly with a low speed agitator until the mixture is fully homogeneous, without any lumps.

Then, add the rest of the component A.

Application:

The thoroughly mixed DOMOLASTIC is applied to the prepared substrate by brush, paintbrush or trowel in 2 or 3 layers. Each subsequent layer is applied crosswise after the previous feels dry or can be pressed (approx. 4-5 hours depending on conditions).

Advantages

- The excellent homogeneous dispersion of the materials provides to DOMOLASTIC a maximum adhesion when applied on surfaces such as concrete, stone, plaster, tile, wood, asphalt, marble, metal (steel, galvanized steel, copper).
- Its special feature is a high degree of flexibility, due to which it follows the contraction-expansion of the substrate.
- Bridges capillary cracks with the use of reinforcement.
- Provides continuous protection against water, even on high positive and negative pressures.
- Resistant to extreme weathering and under temperatures from -30°C to +90°C.
- Water vapor permeable.
- Thixotropic.
- Does not contain chlorides which cause corrosion or detachment.

To improve the mechanical strength on substrates with cracks or for terraces with great accessibility requirements, it is advisable to apply reinforcement (fiberglass 60-90 g/m²) right away after the first layer and then, apply a thin layer (wet on wet) for proper nesting. When applying by trowel the reinforcement can be nested into the first layer by pressing it with the trowel. After 24 hours, the next layer is applied crosswise.

Additional information:

- The thickness of every layer should be max 1 mm.
- Each DOMOLASTIC layer should be protected against a quick dry, heavy wind and against intense sunlight. This way a homogeneous hardening and waterproofing are achieved.
- The hardening time depends on the temperature conditions. The applied DOMOLASTIC is walkable after 1 day at 20°C. It can be mechanically strained after 3 days. It reaches its full hardening and come to permanent contact with water after 7 days.
- After the end of the works, wash all tools with plenty of water.

Consumption

1.3-1.6 kg/m² for one layer of 1 mm thickness.

4-4,5 kg/m² for 3 layers with reinforcement.

In case of permanent immersion to water, 3 layers required

Storage

Component A: at least 12 months from production date in the original pail, in a cool environment protected from frost and direct sunlight.

Component B: at least 12 months from the production date, in its original package in a place protected from humidity.

Packaging

36 Kg : Component A (liquid): Can of 10 kg

Component B (powder): Bag of 26 kg

12 Kg pail: Component A (liquid): Can of 3,33 kg

Component B (powder): Bag of 8,66 kg

Colors

Available in white, sky blue & tile red.

Certifications

The product is certified according to EN 1504-2 (Concrete Protection Systems), in categories 1.3-Ingress Protection (IP), 2.2-Moisture Control (MC) and 8.2-Increasing Resistivity (IR). The product meets the requirements for waterproofing beneath tiles in accordance with EN 14891.

Volatile Organic Compounds (VOC)

EU REGULATION 2004/42: According to Directive 2004/42/EU (Annex II, Table A), the maximum allowed content of VOC (Product Category i / Type WB) is 140 g/L (limits of 2010) for the final product. The final DOMOLASTIC contains max <140 g/L.

Specifications

Form	Liquid (A) Powder (B)
Color	White, Grey, Sky Blue, Tile Red
Specific weight	A: 1.04 ± 0.03 kg/L (23°C)
Bulk density	B: 1.20 ± 0.04 g/cm ³ (23°C)
Viscosity	A: 1700-2200 cP (23°C)
Mixing ratio (brush)	A : B 1 : 2.6 w/w
Mixing ratio (trowel)	A : B 1 : 3.5 w/w (white, grey, tile red) A : B 1 : 3.0 w/w (light blue)
Specific weight of mix	1.80 ± 0.05 kg/L (23°C)
Application temperature	+5°C to +35°C
Pot life	2-3 hours (20°C)
Recoating	3-4 hours (20°C)
Walk ability	1 day (20°C)
Embankment fill	3 days (20°C)
Full hardening	7 days (20°C)

Specifications (continued)

Permeability to CO ₂ (EN 1062-6)	60.7 m
Water vapor permeability (EN ISO 7783)	4.3 m (Class I)
Capillary water absorption (EN 1062-3)	0.01 kg/m ² h ^{0.5}
Adhesive strength (EN 1542)	>1.5 N/mm ²
Thermal compatibility: Freeze-thaw cycling with de-icing salt immersion (EN 13687-1)	>1.5 N/mm ²
Crack bridging ability (EN 1062-7)	1.8 mm (A4)
Resistance to water pressure (EN 12390-8)	5 bar (no penetration) 7 bar (penetration at 1 mm)
Characterization EN 1504-2	Ingress Protection - Moisture Control - Increasing Resistivity
<u>Tests for liquid applied water impermeable products for use beneath ceramic tiling (EN 14891)</u>	
Initial tensile adhesion strength	1,48 N/mm ²
Tensile adhesion strength after water contact	1,38 N/mm ²
Tensile adhesion strength after heat ageing	1,30 N/mm ²
Tensile adhesion strength after freeze-thaw cycles	1,29 N/mm ²
Tensile adhesion strength after contact with chlorinated water	1,43 N/mm ²
Tensile adhesion strength after contact with lime water	1,28 N/mm ²
Waterproofing	No penetration
Crack bridging ability	1,26 mm

All the technical data stated in the present Technical Data Sheet are based on laboratory tests and the knowledge and experience of the company. Different conditions may apply at field applications that are beyond the control of the company. Therefore, the end user is ultimately responsible to make sure that the product is suitable for the application in question and to know the real conditions of the project.