

Domiflex

Flexible two component waterproofing mortar

DOMIFLEX 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 cement and inert fillers selected materials. It offers unique advantages for high waterproofing demands.

Field of application

DOMIFLEX is suitable for application on:

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

Advantages

- The excellent homogeneous dispersion of the materials provides to DOMIFLEX high 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, on 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.

- 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) 1:3.0 w/w

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 DOMIFLEX 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).

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 DOMIFLEX 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 DOMIFLEX 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, grey, 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).

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 DOMIFLEX 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)
Mixing ratio (brush)	A : B 1 : 2.6 w/w
Mixing ratio (trowel)	A : B 1 : 3.0 w/w
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)	123 m
Water vapor permeability (EN ISO 7783)	0,8 m (Class I)
Capillary water absorption (EN 1062-3)	0.04 kg/m ² h ^{0.5}
Adhesive strength (EN 1542)	>1.5 N/mm ²
Characterization EN 1504-2	Ingress Protection - Moisture Control - Increasing Resistivity

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.