

Domissima

BUILT
BY
EXPERTS

Domopox Floor



Self-leveling epoxy floor

DOMOPOX FLOOR is a 2-component, solvent free, epoxy based self-leveling floor. It is used as a protective layer of about 1.5-2.0 mm thickness in addition of selected quartz aggregates (QUARTZ MIX) 0-0.4 mm (or without as epoxy coating), on concrete or other cement based supports. It gives excellent properties to industrial floors where high demands on mechanical or chemical strengths are requested, as well as where special hygienic conditions are asked.

Field of application

DOMOPOX FLOOR is suitable for application in:

- Industrial areas
- Storage rooms
- Garages
- Food industries
- Hospitals
- Laboratories

Advantages

- High bonding strength to the support.
- High mechanical strength.
- High resistance to friction and compression.
- High resistance to chemicals.
- Antislip layer if needed.
- No need for joints.
- Appropriate for resin-mortar use.
- Easy repairable.

Method of use

Substrate condition:

The application surface must be dry (substrate humidity <4%), stable, sound and free of any materials that prevent the proper adherence of the product, as dust, loose pieces, grease, etc. Any existing cracks and holes must be repaired before the application of the product.

Prepare the surface by means of grinding, sandblasting etc. depending on the nature of the substrate, in order to achieve better adherence. Then, clean the surface thoroughly from the dust with a high power vacuum cleaner.

Prior to product application, primer the substrate with DOMOPOX FLOOR PRIMER or DOMOPOX FLOOR PRIMER 50, applied by roller.

Mixing:

Mixing ratio:

A:B 3:1 w/w

A+B (liquid mixture):QUARTZ MIX (powder) 1:1.15-1.3 w/w
Components A and B are packed in a default mixing ratio.

Component B is added to component A.

The two components are mixed with an electric agitator of low power (300 rpm).

The mixing time should be at least 5 minutes until the mix is completely homogeneous (to 15 minutes max).

QUARTZ MIX is added on the mix of A and B and is mixed again until the blend is completely homogeneous.

The final mix must be consumed immediately with no delay.

Application:

Self-levelling floor: The mix is applied at least 24 hours after the primer application (optional powdering of quartz aggregates- QUARTZ MIX), with a notched spatula. 10 to 15 minutes after the application, go over the surface several times with a spiked roller in order to expel the trapped air and to distribute evenly the aggregates, at least 2 times crosswise.

If a floor with higher thickness is requested, then apply another layer of DOMOPOX FLOOR, under the condition that the extra layer will be applied within 48 hours after the application of the previous layer and always on a clean surface. Otherwise a new application of primer is required.

Epoxy coating: DOMOPOX FLOOR without QUARTZ MIX is applied on the well-prepared support by roller, brush or airless spraying machine (beck 21-25).

DOMOPOX FLOOR is applied in two layers. The second layer should be applied crosswise once the first layer is completely dry.

Additional information:

- The product is sensitive to humidity and should not be applied in moist conditions (>60%). Therefore, avoid application during the morning hours (especially in winter).
- Uncured product is cleaned by solvent. After curing, it can be only removed mechanically.
- After the end of the works, the used tools must be washed thoroughly with the special cleaner DOMOPOX CLEANER.

Consumption

Self-levelling floor

0.7-0.8 kg/m² (A+B) for layer of 1 mm thickness.

1.7 kg/m² (A+B+QUARTZ MIX) for layer of 1 mm thickness.

Epoxy coating

200-250 g/m² per layer on smooth substrates.

Storage

At least 24 months from production date in the original pails, in a cool environment protected from frost and direct sunlight.

Packaging

Component A (paste): pails of 7.5 kg.

Component B (liquid): cans of 2.5 kg.

Colors

Beige (RAL 1015), light grey (RAL 7035) and dark grey (RAL 7042). Other colors available on request.

Certificates

The product is certified (with the use of QUARTZ MIX) according to EN 13813 (Screed Materials), as Synthetic Resin-B2.0-RWA20-IR2.5.

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 j / Type SB) is 500 g/L (limits of 2010) for the final product. The final DOMOPOX FLOOR contains max <500 g/L.

Specifications

Form	Paste (A)	Liquid (B)
Shading/Colors	Beige (RAL 1015), Light grey (RAL 7035) Dark grey (RAL 7042)	
Mixing ratio	A : B 3 : 1 w/w (A+B) : QUARTZ MIX	1 : 1.15-1.3 w/w
Specific weight of mix	1.69 ± 0.05 kg/L (23°C)	
Application Temperature	+10°C to +30°C	
Average Thickness of layer	1.5-2.0 mm	
Adhesive strength (prEN 13892-8)	2.29 N/mm ² (B2.0)	
Resistance to abrasion by rolling wheel (prEN 13892-5)	17.6 cm ³ (RWA20)	
Impact resistance (EN ISO 6272)	No cracks for a 10 N load from 0.25 m height (IR2.5)	
Surface hardness (prEN 13892-6)	185.7 N/mm ² (SH150)	

Application & hardening times

Pot Life

Temperature	+10°C	+20°C	+30°C
Time	35 minutes	25 minutes	15 minutes

Time between layers (DOMOPOX FLOOR on DOMOPOX FLOOR PRIMER/PRIMER 50)

Substrate temperature	+10°C	+20°C	+30°C
Minimum	24 hours	15 hours	10 hours
Maximum	48 hours	48 hours	36 hours

Time between layers (DOMOPOX FLOOR on DOMOPOX FLOOR)

Substrate temperature	+10°C	+20°C	+30°C
Minimum	24 hours	15 hours	8 hours
Maximum	48 hours	36 hours	24 hours

Applied product ready to be used

Temperature	+10°C	+20°C	+30°C
Walkability	24 hours	16 hours	10 hours
Light load	7 days	4 days	2 days
Full hardening	14 days	10 days	10 days

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.