Technical Datasheet

DUROPRIMER-SG

Epoxy primer for oil-contaminated concrete floors - Vapor barrier

Description

DUROPRIMER-SG is a two-component epoxy system, suitable for wet substrates. Thanks to its high specific weight, DUROPRIMER-SG displaces the water from the capillaries of concrete floors and acts like a barrier against capillary rising oils and other chemicals.
DUROPRIMER-SG is resistant to chemicals rising from the soil and shows excellent adhesion to wet concrete surfaces.
Certified according to EN13813 and classified as SR-B2,0. CE marked.

Fields of application

It is used as a primer on oil-contaminated concrete surfaces to be covered with epoxy coatings from the DUROFLOOR range (prior substrate cleaning is required). Also suitable for substrates that are still damp or have problems with rising damp.

Technical data

Base:	2-component epoxy resin
Color:	light beige
Viscosity:	approx. 700 mPa·s at +23°C
Density:	1.75 kg/l
Mixing ratio (A:B):	100:20 by weight
Pot life:	approx. 60 min at +23°C
Walkability:	after 24 h at +23°C
Recoat time:	after 24 h at +23°C
Final strength:	after 7 days at +23°C
Water vapor permeability	
• EN 12086:	Sd > 1100 m
• EN ISO 7783-2:	Class III (low)
Minimum hardening temperature:	+8°C
Adhesion strength:	3 N/mm^2 (breaking point of concrete)

Cleaning of tools:
Tools should be cleaned with SM-25 solvent immediately after use.

Directions for use

1. Substrate
Oil-contaminated surfaces should first be cleaned with an emulsifying cleaning agent (e.g. FD-CLEAN) as per application instructions. Then, the surfaces should be cleaned by high-pressure water blasting. Finally, the generated wastes should be collected and removed.
DUROPRIMER-SG should be applied to the surface while is still wet but its pores aren't fully saturated with water. This can be verified if, by slightly dampening the surface, the new amount of water is fully absorbed by the substrate shortly after. Should the surface get dry after the cleaning step, oils rise up and prevent bonding of DUROPRIMER-SG to the surface.

Note: Oil-contaminated surfaces are particularly tricky. For more information, we recommend that you consult our Technical Department.

Application of DUROPRIMER-SG to wet substrates or substrates with rising damp is possible only if the pores of the surface aren't fully saturated with water.

2. Mixing of components
Components A (resin) and B (hardener) are packaged in two separate containers, having the correct predetermined mixing ratio by weight. The entire contents of component B is added to component A. Mixing of the two components should take place for about 5 minutes, using a low-speed mixer (300 rpm). It is important to stir the mixture thoroughly near the sides and bottom of the container to achieve uniform dispersion of the hardener.

DUROPRIMER-SG

3. Application
Pour DUROPRIMER-SG over the floor and spread it with the use of a brush to penetrate deep into the substrate. Then, to ensure even distribution of the material over the entire floor surface, continue the application with a roller or squeegee.
The application of the selected DUROFLOOR system follows within 24 hours and after the primer has hardened.

4. Consumption
Depending on the substrate and the application method, the consumption of DUROPRIMER-SG rages between 600-1000 g/m^2.

Packaging

DUROPRIMER-SG is supplied in 10 kg containers (A+B), with components A and B having a fixed mixing ratio by weight.

Shelf life – Storage

12 months from date of production if stored in original, sealed packaging, in dry conditions, protected from direct sunlight. Recommended storage temperature between +5°C and +35°C.

Remarks

- The workability of epoxy materials is affected by their temperature. The ideal application temperature ranges between +15°C and +25°C for the product to be easy to use and cure as prescribed. Room temperature below +15°C will prolong the curing time, while temperatures above +30°C will accelerate it. It is recommended to mildly preheat the product in the winter and store it in a cool room before application in the summer.
- Epoxy layers should be protected from moisture for 4-6 hours after application. Moisture may whiten the surface or/and make it sticky. It may also disturb hardening. Faded or sticky layers in parts of the surface should be removed by grinding or milling and laid again.
- In case recoat time is longer than expected or old floors are to be laid again, the surface should be thoroughly cleaned and ground before application of the new layer.
- After hardening, DUROPRIMER-SG is totally safe for health.
- Please consult the directions for safe use and precautions written on the packaging before use.

Volatile organic compounds (VOCs)

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory h, type SB, is 750 g/l (2010) for the ready-to-use product.
The ready-to-use product DUROPRIMER-SG contains max. 750 g/l VOC.

DUROPRIMER-SG

CE

ISOMAT S.A.
17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag Athanasios, Greece

08

DoP No.: DUROPRIMER-SG / 1817-01

EN 13813 SR-B2,0

Primer

Reaction to fire: NPD

Release of corrosive substances: SR

Water permeability : NPD

Wear resistance: NPD

Bond strength: B2,0

Impact resistance: NPD

Sound insulation: NPD

Sound absorption: NPD

Thermal resistance: NPD

Chemical resistance: NPD

ISOMAT S.A.
BUILDING CHEMICALS AND MORTARS
MAIN OFFICES - FACTORY:
17th km Thessaloniki - Ag. Athanasios Road,
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,
Tel.: +30 2310 576 000, Fax: +30 2310 576 029
www.isomat.eu e-mail: support@isomat.eu