DESMOFLEX® EPOXY PRIMER

Water based epoxy primer

DESMOFLEX EPOXY PRIMER is a transparent, rigid, two component, water-based epoxy primer. It is used as a universal primer in waterproofing, sealing and floor coating and it can be applied on both absorbent and non-absorbent surfaces. DESMOFLEX EPOXY PRIMER cures after its application through the reaction of its two components by crosslinking. It also provides high tensile and impact strength.



Advantages:

- Simple application (roller or brush).
- Low odor.
- Excellent anchoring to absorbent and non-absorbent surfaces.
- Can be applied on moist surfaces, without loss of adhesion.
- Can be diluted with water.

TECHNICAL CHARACTERISTICS

Packaging:

Plastic containers
- 3kg Component A
- 1kg Component B

Consumption:

~ 100-200 gr/m^2 in one or two layers.

Shade:

Transparent.

Storage:

Plastic containers should be stored in dry and cool environments at temperatures between 5°C and 30°C for up to 36 months. Protect the material against moisture and direct sunlight. Products should remain in their original, unopened containers, bearing the manufacturer's name, product designation, batch number and application precaution labels.

Application:

Polyurethane waterproofing coating. On absorbent and non-absorbent surfaces.

FIELDS OF APPLICATION

DESMOFLEX EPOXY PRIMER is mainly used as a primer for polyurethane waterproofing coatings, polyurethane joint sealants and polyurethane and epoxy floor coatings on absorbent and non-absorbent surfaces like:

- Power floated concrete
- Metal (various)
- Asphalt
- Bitumenfelts
- Ceramic tiles
- Old Acryl-based coatings
- Mosaics
- Glass

It can also be used on moist concrete surfaces. It is also used as a tack-coat between coating layers if intercoating time intervals are overstepped.

SUBSTRATE PREPARATION

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean and sound, free of any contamination, which may harmfully affect the adhesion of the primer. Old coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothened. Any loose surface pieces and grinding dust need to be thoroughly removed. Do not use a metal-ball blasting machine to grind the surface, because the impacts will destroy the cohesion of the concrete surface and lower its stability. New concrete structures must dry for at least 28 days.

APPLICATION

DESMOFLEX EPOXY PRIMER components A and B should be mixed at low speeds with a mechanical stirrer, according to the stipulated mixing ratio for about 3-5 min. The mixing of the components has to be carried out very thoroughly, especially on the walls and the bottom of the container until the mixture becomes fully homogenous. Dilute the mixture with 10-20% clean water to regulate its viscosity. For optimum results, the temperature during the application and curing time should be between 5ºC and 35ºC. Cure times are prolonged in lower temperatures and shortened in high temperatures. In addition, high humidity may affect the final properties of the product. Apply DESMOFLEX EPOXY PRIMER by roller or brush, until the surface is covered. After approximately 6-12 hours and while the primer is still tacky, apply the polyurethane coating DESMOFLEX POLYURETHANE.

PRECAUTIONS

DESMOFLEX EPOXY PRIMER components A and B contain amines and epoxy resins. For information regarding safe use, storage and disposal of the product, read carefully the information on the label and on the most recent Material Safety Data Sheet (MSDS) of the product, which is available to professionals upon request.

Technical Characteristics	Units	Standard	Value
Composition			Water based epoxy resin and hardener
Mixing ratio			A:B = 3:1
Adhesion to aluminum	N/mm^2	ASTM D 903	>2
Adhesion to moist concrete (6%)	N/mm^2	ASTM D 903	>1.5 (concrete failure)
Overcoating time (20°C, 50% RH)	h		6 – 12
Pot life (20°C, 50% RH)	min		45 – 50
Final curing time (20°C, 50% RH)	days		7

*Note: The measurements were taken in laboratory environment under normal temperature and relative humidity conditions (+23°C, 50%). It is possible for them to vary depending on the conditions prevailing at the worksite (temperature, humidity, absorbability of the substrate).

The technical information and instructions contained in the present brochure and referring to the application and end use of Thrakon products are based on the up to now know-how and experience of the Company with regards to the products and are provided in good faith as long as such products are stored, used and applied as per Thrakon recommendations. Due to the inability, on our part, to directly inspect the conditions prevailing at the worksite as well as the application procedures of the product, the Company does not provide any guarantee with regards to the adequacy of its products for specific purpose while the Company shall not bear any legal responsibility based on the information stated in the present brochure or any other written, oral, or otherwise provided recommendations and instructions. The users of the products are advised to perform a limited surface testing of the products adequacy for the eventual application and use intentions. Thrakon reserves the right to modify the features of its products without prior notification. All orders shall be approved only following acceptance of the above and under the eventual Commercial Policy terms of the Company. The issuance of the present brochure voids any prior version.
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