

DESMOFLEX® FIBER FIX

Fiber-reinforced polyurethane liquid waterproofing membrane (1K) for roof and terrace details

DESMOFLEX® FIBER FIX is a fiber-reinforced, polyurethane, liquid waterproofing one-component membrane with high thixotropy and elasticity. Its unique composition of elastomeric, hydrophobic polyurethane resin and inorganic chemical additives, makes it resistant to chemical and thermal attack, UV radiation, in severe weather conditions, while giving it excellent mechanical properties, so that it can easily cope with various mechanical stresses.

During its application, it creates a single, without joints and connections, elastic, waterproof, water-vapor permeable membrane which presents a perfect adhesion in all coating surfaces, such as tiles, timber, concrete, cement mortars, etc., as well as in most waterproofing surfaces. Before using it, the substrate does not need to be smoothed, while this can be done all year round, without a long wait (low temperatures/low relative humidity).



Advantages:

- Single, elastic membrane without joints and connections.
- Rapid polymerization.
- Application in areas with stagnant water.
- Membrane without bubbles and imperfections.
- Maintains its characteristics for temperatures from -40°C to 90°C.
- In case of damage to the membrane, it is repaired locally with the same material without removing the already existing coating and in just a few minutes.
- Simple application (one component, ready to use).
- Provides excellent adhesion to the whole surface.
- Resistant to water, rain and frost.
- Vapor permeable/breathable substrate.
- Excellent resistance to chemical attacks and seawater.
- Resistant to ultraviolet (UV) radiation.
- High tensile strength and elasticity.
- Abrasion resistant.
- Resistant to microorganisms.
- Crack-bridging up to 2mm, even at -10°C.
- The surface remains passable.
- Certified as resistant to root penetration.
- Over 15 years of possible repaint.

TECHNICAL CHARACTERISTICS



Packaging:

• 6kg Metallic container



Consumption:

~ 1,4-2,4 kg/m²



V.O.C. class :

A/I one-pack performance coatings (S.B.)
V.O.C limit: 500 gr/lit.
Maximum V.O.C. of product ready to use: 500 gr/lit.

Storage:

Store in well-sealed containers without any problems for up to 9 months in a cool and dry place (5-30°C). Must be protected from solar radiation and frost.



Application:

For indoor and outdoor use. Urban, industrial and construction site use. Suitable for conventional and demanding substrates.



Color:

Glossy white.

FIELDS OF APPLICATION

DESMOFLEX® FIBER FIX is suitable for waterproofing details on roofs, terraces and joints between floors. More specifically, it is appropriate for joints between wall-floor, at angles up to 90°, pipes, skylights, ventilation, chimneys, bases of air conditioning units, pipettes, gutters, luminaires, photovoltaic and solar systems. In addition, it is suitable for sealing details in large technical projects with high requirements. Furthermore, it can be used between different materials such as wood, ceramics, various types of metals and alloys, concrete, cement mortars and cement pastes, PVC and EPDM films, acrylic coatings, tarpaulins, polyurethane foams, etc.

SUBSTRATE PREPARATION

The surface must be clean, dry (moisture content $\leq 5\%$), stable and free of dust, mold, grease and oil before application. Remove any frayed or peeled old paint so that the adhesive capacity of the film is not affected. In case of persistent residues, they should be removed with abrasive devices. After treatment, the substrate is cleaned with a broom or brush. Avoid using cleaning with water.

In the case of new concrete or cementitious surfaces, these must be at least 28 days old. In case of gaps or cavities, they should be repaired with appropriate repair materials. In the presence of cracks, they are first primed locally with DESMOFLEX® EPOXY PRIMER and, after 2-3 hours (depending on weather conditions), are sealed with ELASTO PU polyurethane mastic. For all concrete surfaces and generally porous surfaces, primer with DESMOFLEX® EPOXY PRIMER with a consumption of 100-200 g/m².

Smooth, non-absorbent surfaces, as well as surfaces made of waterproofing materials, must be primed with the DESMOFLEX® EPOXY PRIMER thinned with water up to 30% by weight. Consumption 100-200 g/m². Then, the application is carried out after 24 to 48 hours and after the layer's moisture becomes less than 5%.

Finally, in the case of metal surfaces, they must be free of rust, dust, dry paint, grease, loose material and any other deterioration that could reduce adhesion levels. This is achieved by brushing, scrubbing, sandblasting and any technique that can reveal a healthy metal surface and rid it of loose parts. The surface must then be cleaned of dust. Then apply with one coat DESMOFLEX® EPOXY PRIMER, with the second coat being applied after 24 hours with a consumption of 100-200 g/m². Finally, apply DESMOFLEX® FIBER FIX within 24 to 48 hours and after the primer has dried.

APPLICATION TOOLS AND CLEANING

DESMOFLEX® FIBER FIX applied with a hard paintbrush or brush. Immediately after use, wipe the tools with a cloth and then with LS-703.

APPLICATION

1. Before use, stir the contents of the container well with a mechanical stirrer at low rpm until a homogeneous mixture is formed.
2. Apply the product to the primed surface with a brush until the desired area is covered. After 18-36 hours, the second hand is performed crosswise.
3. While the material is still fresh and to prevent it from slipping, apply quartz sand with a maximum grain of 2 mm.
4. For excellent results, cover the whole waterproofed surface with one layer of the elastic protection paint DESMOFLEX® TOP COAT. The use of DESMOFLEX® TOP COAT is recommended especially when applied dark colors are exposed to sunlight (after 12-24 hours of DESMOFLEX® FIBER FIX). In case the surface is going to accept heavy circulation of pedestrians (e.g. stadium shuttles), apply two layers.

PRECAUTIONS

About information regarding safe use, storage and disposal of the product, read the information on the label and in the most recent product Material Safety Data Sheet. The product Material Safety Data Sheet is available upon request to professionals.

The skin and eyes must be protected. Protective gloves and goggles must be worn when applying the paint. In case of contact with the eyes, rinse immediately with plenty of water and consult a physician. The product should be kept out of the reach of children.

Leftovers should not be disposed of with household waste. Advice should be sought from the local authority regarding the disposal and collection of waste.

National poison information center tel.: 210-7793777.

WARNINGS - INFORMATIONS

DESMOFLEX® FIBER FIX must be used in a well-ventilated area. The application should always be done using activated carbon masks due to volatile organic compounds. Solvents are heavier than ambient air, so they diffuse and crawl on the ground. Contains isocyanates. Keep young children and babies away from the product. Do not apply at ambient and surface temperatures below 5° C and when certain temperatures are expected for 4 hours after application. The application should also be avoided in wet conditions such as rain, fog and generally wet conditions or when expected as well as on icy surfaces. Surfaces with anodic moisture must be primed. The polymerization rate varies depending on the ambient temperature. At low temperatures polymerization is delayed, while at high temperatures it is accelerated. Do not come in contact with water in swimming pools. The product must be applied immediately after opening the package. Excess material is discarded due to its curing in contact with the atmosphere. It is a flammable material. Apply and store away from naked flames and spark sources. Smoking is prohibited during the application of the product. It is intended for professional use only.

*Note: The measurements were taken in laboratory environment under a temperature of +23°C, Relative humidity 50% and without ventilation. It is possible for them to vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation, 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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