DESMOFLEX® AQUA

High quality polyurethane water-based membrane

DESMOFLEX AQUA is a high quality white, one-component, aliphatic, liquid polyurethane, water-based, suitable for waterproofing. Its unique composition is designed to create a single, elastic, hydrophobic membrane that completely covers capillaries and cracks up to 2 mm. It offers high protection against humidity (suitable for surfaces with stagnating waters) as well as very high protection against solar UV rays and mechanical stress. After application, the surface remains trafficable and resistant to stagnating waters, maintaining high whiteness over time.



Advantages:

- Perfect waterproofing with high resistance to stagnating waters.
- High performance, elasticity and walkability.
- Resistant to humidity and UV radiation.
- Suitable for cracks up to 2 mm.
- Guaranteed long-term protection of the substrate.
- User-friendly, does not peel off or contribute to the development of fungi.
- Retains its mechanical properties at temperatures between -15ºC and 80ºC.
- Reflects solar radiation and offers lower temperature in the summer.
- Economical solution and perfect results.
- High mechanical strength.
- It is applied easily and offers a smooth and snow-white surface. Never fades and prevents dust and dirt from staying on the surface. No holes on the surface during material curing.
- Can be applied even on cloudy days because the final polymerization is carried out through evaporation, thus cloudy conditions are also favorable.

TECHNICAL CHARACTERISTICS

Packaging:

Plastic containers
- 4 kg
- 12 kg

Consumption:

~ 1,0-1,2 kg/m^2 applied in two layers.

Shade:

White.

Storage:

The containers should be stored in dry and cool environments at temperatures between 5ºC and 30ºC for 36 months only if the product has not been diluted.

Application:

Waterproofing horizontal cementitious surfaces. Suitable for surfaces with stagnating waters.

FIELDS OF APPLICATION

DESMOFLEX AQUA is suitable for long term waterproofing of roofs, terraces, balconies and asphalt felts, EPDM or PVC membrane. Waterproofing of horizontal surfaces from concrete, cement mortars etc., especially for surfaces with stagnating waters.

SUBSTRATE PREPARATION

The substrate should be steady and all loose materials should be removed. Wash the substrate with plenty of water under pressure in order to remove any remains, such as dust, oil and grease. In addition, remove all stagnating waters. In case the concrete is decayed or there are cracks wider than 2,0 mm, the defects should first be repaired and the cracks filled with one of THRAKON repairing materials depending on the case. Before the application of the material the substrate should be treated with the water-based DESMOFLEX EPOXY PRIMER or with GLX 292 FLEX PRIM acrylic primer. The substrate should be completely dry before application.

TOOL – STAINS CLEANING

Immediately after use, drain the material into the container and clean all the tools with hot water and soap. Do not pour the washing liquids on the ground. The matured material can be only removed through mechanical means.

APPLICATION

Effective waterproofing requires two crosswise layers. For brush, roller or airless sprayer application, dilute with 5% water for the first layer. Apply the second layer after the first has completely dried (24 hours). For two days after the application, the surfaces should remain dry. When the substrate is severely cracked the product should be applied in at least three layers and it should be reinforced with THRAKON FABRIC. Application is not recommended when temperatures fall below +10°C or rise above +40°C, when the relative atmospheric humidity is >80% or when the surface humidity is >4%. DESMOFLEX AQUA takes the form of a membrane 7 days after application.

PRECAUTIONS

For information about safe use, storage and disposal of the product, read the information on the label and in the most recent MSDS of the product, which is available upon request to professionals. The remains of the paints should not be disposed of together with domestic waste. Ask for advice from the local government with regard to the disposal and removal of waste.
Poisoning Centre Tel. No.: 210 77.93.777

Technical Characteristics	Units	Standard	Value
Appearance/Color			Thick liquid/white
Density	Kg/l		1.44 ± 0.03
Application rate – 2 layers	Kg/m^2		1.0-1.2
Touch dry	h		1-2
pH	mm	ISO 1148	8-9
Recoating	h		24
Elongation during breakage	%	ASTM D 412-06a	600 ± 100
Adhesive strength	N/mm^2	EN 1542:2001	2.4 ± 0.2
Spectral reflectance (SR)	%	ASTM E903-12 and ASTM G159-98	86
Solar Reflectance Index (SRI)		ASTM E1980-11	106
Hardness Shore A		ASTM D2240	65 ± 5
Operating temperatures	^oC		-15 to 80
Tensile strength	MPa	ASTM D 421-06a	2.00 ± 0.25
Maturation time – final properties	d		7
Application temperature	^oC		5-35

*Note: The measurements were taken in laboratory environment under a temperature of +23^{0}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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