

D-FLEX BITU AQUA

WATER BASED POLYURETHANE-BITUMINOUS, ONE-COMPONENT COATING

WATERPROOFING

HIGH ELASTICITY

CRACK BRIDGING



PACKAGING

20 kg (Plastic container)



CONSUMPTION

~ 1.0 – 1.5 kg/m².



COLOUR

Black



STORAGE

Store in well-sealed containers in cool and dry places, protected from sunlight, for up to 36 months after the production date.

STANDARD COATING SYSTEM

Primer: DESMOFLEX® EPOXY PRIMER, Coating: D-FLEX® BITU AQUA.

RECOMMENDED

For standard concrete and other porous substrates.

APPLICATION CONDITIONS

It can be applied under diverse weather conditions and temperature changes.

DESCRIPTION

D-FLEX® BITU AQUA is a one component, water based, asphalt-polyurethane dispersion. The produced membrane is characterized by high elasticity and mechanical strength and the complete coating system offers excellent adhesion to many types of surfaces. It can be applied on both horizontal and vertical surfaces, in order to seal foundations and buried walls, as well as for bridging and filling in cracks.

ADVANTAGES / CHARACTERISTICS

- Ready-to-use product.
- Easy application (by brush or roller).
- Creation of a continuous, elastic membrane without seams and joints.
- Maintenance of elasticity at low temperatures.
- Provides water vapour permeability so the surface can breathe.
- Provides water vapor permeability so the surface can breathe.
- In case of membrane damage, it is repaired within a few minutes locally, with the same material and without removing the existing coating.
- Suitable for the application on vertical surfaces.
- Excellent adhesion to concrete coated with suitable primer and very good resistance to chemical attack
- Low VOC, water-based material with all the advantages of a hydrophobic elastomeric polyurethane resin.

APPLICATION FIELDS

Recommended for: basements (foundations), retaining walls, damp areas, bituminous membranes, application under tiles (after applying quartz sand on the last layer), gypsum boards, cement boards, as well as for use on roofs, terraces and balconies before covering them.

SUBSTRATE PREPARATION

The concrete surface must be structurally sound, dry (moisture content < 4%) and clean, free from dust, oils and grease, salts, old paints and other impurities. Any loose parts or corrosion products must be removed. The substrate must also have sufficient strength and a preliminary application in a test area is recommended. When applied on fresh concrete, a minimum interval of 28 days before application is required. The surface must be cleaned by brush or vacuum. Damaged surfaces must be repaired with the suitable products, before any application. Surface defects on concrete surfaces, such as voids, cavities, large cracks must be exposed before any repair works. The substrate must be dampened (without excess water or leaks) and then coated with **DESMOFLEX® EPOXY PRIMER**. Afterwards, the cracks must be sealed with polyurethane mastic **ELASTO PU** before applying the product. In the case of new concrete surfaces, the application of primers is not considered necessary.

APPLICATION TOOLS & CLEANING

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The product can be applied by a brush or roller, 6-12 hours after the primer application, while the surface is still sticky.

Immediately after use, dispose all extra material left on tools in the container and wash all tools with water. Hardened material can only be removed by mechanical cleaning. Do not dispose washing wastes down the drain, towards the water table. In the case of a roller-based application, this should be strictly a single-use one.

APPLICATION

- 1 Open the package lid and stir the product with an electric agitator at low speed (300 rpm), for about 2-3 minutes, until the product is fully homogeneous.
- 2 The product must be applied on the primer coated surface, by emptying it with the help of a roller or brush until the entire surface area is fully covered. The use of 2 layers is recommended.
- 3 The second layer must be applied after 12 hours and no longer than 24.

The application of **D-FLEX® BITU AQUA** is not recommended on loose and unstable surfaces and for sealing pools with chemically treated water. After application on substrates, surfaces must be further coated.

PRECAUTION

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.

The skin and eyes must be protected during application. Protective gloves and goggles must be worn when applying the product. 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 and product wastes should not be disposed of with household waste. Please ask for the advice of local authorities regarding the proper disposal and collection of waste.

WARNINGS & SAFETY INFORMATION

- **D-FLEX® BITU AQUA** must be used in a well-ventilated area. Masks equipped with activated carbon filter should always be used for the protection against volatile organic compounds.
- Not suitable for non-porous surfaces and surfaces with low cohesion.

- Not suitable for swimming pools and water tanks.
- In order to achieve surface connections such as wall-floor, water pipes, chimneys, pipes, etc. to be reinforced with **THRAKON FABRIC** by encasing it inside **D-FLEX® BITU AQUA**.
- Avoid prolonged exposure to sunlight.
- Protect the fresh membrane against rain and wind for approximately 8 hours.
- Remove/mop any accumulated water film on flat surfaces until the membrane is fully cured.
- Material for professional use only.

The technical information and guidelines in this brochure related to the application and end-use of THRAKON products are based on the Company's current expertise and experience on the products and are given in good faith provided they are properly stored, used and applied in accordance with the guidelines given by THRAKON. Given that we are unable to directly inspect the conditions that prevail at the worksite as well as the application of the product, the Company shall not provide any guarantee regarding the suitability of its products for any particular purpose and disclaims any legal responsibility that is based on written information in this brochure or on written or oral or otherwise provided recommendations and guidelines. By applying the product on a small surface, the users are advised to test the product's suitability for the intended application and purpose. THRAKON reserves the right to amend the properties of its products without prior notice. All orders are accepted only after acceptance of the above and under the Company's respective Trade Policy terms. This version of the technical data sheet automatically cancels any previous version

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TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUES / CHARACTERISTICS
Chemical composition	Asphalt-Polyurethane Water based Dispersion		
Colour			Black
Density (20°C)	(kg/l)		1.29
Viscosity (20°C)	(cP)	Brookfield Viscometer (spindle 5/ 10 rpm)	32,080
	%Torque		80
Elongation at Break	(%)	ISO 527-1:2012	550 ± 50
Tensile Strength at Break	(N/mm²)	ISO 527-1:2012	2.05 ± 0.10
Adhesion Strength by Pull Off Test (23°C)	(N/mm²)	EN 1542	> 1.0
Water Capillary Absorption, W	(kg/m²h^{0.5})	EN 1062-3	< 0.1
Permeability to CO₂, S_d	(m)	EN 1062-6	> 50
Water Vapour Permeability		ISO 7783:2018	Class I (permeable)
Reaction to Fire		EN 13501-1	Euroclass F
Ambient Air Temperature	(°C)	5-40	Ambient Air Temperature
Atmospheric Relative Humidity	(%)	Max. 80	Atmospheric Relative Humidity
Substrate Surface Moisture	(%)	<4	Substrate Surface Moisture
Substrate Temperature	(°C)	10-30	Substrate Temperature
Recoating Time (23°C/ 55% R.H.)	(h)	Max. 24	Recoating Time (23°C/ 55% R.H.)
Curing Time (23°C/ 55% R.H.)	(h)	48	Curing Time (23°C/ 55% R.H.)
Total Curing Time	(days)	8	Total Curing Time

Note: The measurements were conducted in laboratory environment at a temperature of 23 ±20°C, Relative Humidity 50% and without ventilation. The test results may vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation and substrate porosity.

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