

TECHNICAL DATA SHEET

Hypertectum®-DUOFLEX 1K

Date : 23/08/2022

Revision : 22/01/2024

Page : 1

One component, FAST CURING, polyurethane - bitumen liquid membrane for flashing, waterproofing & protection.

PRODUCT INFORMATION

DESCRIPTION:

Hypertectum®-DUOFLEX 1K is a very fast throughout curing, one component, bitumen-extended polyurethane liquid membrane and thixotropic. The product although fast curing, does not exhibit bubbling during the curing process even at high temperatures and humidity in the atmosphere. **Hypertectum®-DUOFLEX 1K** although fast curing, displays excellent adhesion to most types of substrates even bituminous.

It is based on pure elastomeric hydrophobic polyurethane resin and is extended with chemically polymerised virgin bitumen.

Apply with brush or spatula. Total consumption: 1.5. kg/m² in one or two coats.

FEATURES AND BENEFITS

- Very economic
- Very fast curing even at low temperatures and low humidity
- Minimal bubbling formation
- Excellent adhesion on almost any type of surface, with or without the use of special primers.
- Excellent thermal resistance, the product never turns soft. Max service temperature 80 °C, max shock temperature 150 °C.
- Resistance in the cold: The film remains elastic even down to -40 °C.
- Outstanding mechanical properties, high elongation, tensile and tear strength, high abrasion resistance.
- Excellent chemical resistance.
- Effective humidity barrier.

RANGE OF USAGE

- **Hypertectum®-DUOFLEX 1K** is recommended for the waterproofing and protection of basements, foundations and under tile waterproofing such as balconies and wet rooms.
- gypsum and cement boards,
- asphalt membranes (for repair also),
- cementitious substrates,
- roofs,
- concrete/steel reinforced concrete or otherwise,
- light roofing made of metal or fibrous cement,
- basements,
- foundations,
- closed spaces with high humidity.

TECHNICAL INFORMATION

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In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25 °C	20.000-30,000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	+/-1
Flash point	°C	ASTM D93, closed cup	> 42
Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	1.5-3 hour
Recoat time	hours	-	3-24

The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION	
Service temperature	°C	-	-40 to 80	
Max. temperature short time (shock)	°C	-	150	
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	35	
Tensile strength at break @ 23 °C	Kg/cm ² (N/mm ²)	ASTM D412 / EN-ISO-527-3	30 (3)	
Percent elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 600	
Adhesion to concrete	kg/cm ² (N/mm ²)	ASTM D4541	Without primer: >0.5 N/mm ² (EOTA minimum requirement)	With primer: >2 N/mm ²

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Thermal resistance (200 days @ 80 °C)	-	EOTA TR011	passed
H ₂ O absorption (10 days)	-	-	< 1.0%
QUV Accelerated Weathering Test (4hr UV, @ 60 oC (UVB-Lamps) & 4hr COND @ 50 oC)	-	ASTM G53	passed (1000 hours)
Chemical resistance (Sodium Hypochlorite NaOCl 5% 10 days)	-	-	unaffected
Hydrolysis resistance (Potassium Hydroxide 8% 10 days @ 50 °C)	-	-	unaffected

APPLICATION PREREQUISITES

Hypertectum®-DUOFLEX FC has excellent adhesion to most types of substrates, as well as bituminous, without the use of primers. Nevertheless, testing before use is strongly advised. Please contact our technical department for further information.

Concrete substrate conditions (standard):

- Hardness: R₂₈ = 15MPa.
- Humidity: W < 10%.
- Temperature: 5-35 °C.
- Relative humidity: < 85%.

APPLICATION PROCEDURE

PREPARATION OF SUBSTRATE:

Clean the surface using a high-pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must be removed. Fill surface irregularities with the appropriate product.

MIXING AND APPLICATION:

The contents of the pail should be thoroughly mixed with a mechanical mixer to ensure product is completely homogenized before application. Prolonged storage may induce slight sedimentation and/or separation that must be re-homogenized.

TOOLS AND CLEANING

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Tools for applying: brush, spatula, or airless spray. Clean tools and equipment first with paper towels and then using SOLVENT-01.

CONSUMPTION

Total consumption: **2 kg/m²** in one or two coats.

PACKAGING AND SHELF LIFE

Packaging: 1 kg, 4 kg, 20 kg

Shelf life: Can be kept for 6 months minimum in the original unopened pails in dry places and at temperatures of 5-25 °C. Once opened, use as soon as possible.

SAFETY, ECOLOGY AND ELIMINATION

Contains a small quantity of volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

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Page : 5

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