

## HYPERDESMO®-PB-1K FC

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

### DESCRIPTION

**HYPERDESMO®-PB-1K FC** is a very fast throughout curing, one component, self-leveling bitumen-extended polyurethane liquid membrane. The product although fast curing, does not exhibit bubbling during the curing process even at high temperatures and humidity in the atmosphere. **HYPERDESMO®-PB-1K FC** 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. Product complies with **ASTM C836**.

Apply with brush or spatula or airless spraying. Total consumption: 2.0 kg/m<sup>2</sup> in one or two coats.

### RECOMMENDED FOR

Waterproofing and protection of:

- basements
- foundations
- roofs (inverted roof insulation build ups)
- concrete/steel reinforced concrete or otherwise
- under tile waterproofing such as balconies and wet rooms
- polyurethane insulation foams
- general purpose-heavy duty jobs

### LIMITATIONS

Not recommended for unsound substrates or UV-exposed applications.

### FEATURES & BENEFITS

- Very economic
- Very fast curing even at low temperatures and

low humidity

- Minimal bubbling formation
- Allows multi-layer application
- 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.

### APPLICATION PREREQUISITES

**HYPERDESMO®-PB-1K 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: R<sub>28</sub> = 15MPa.
- Humidity: W < 10%.
- Temperature: 5-35 °C.
- Relative humidity: < 85%.

### APPLICATION PROCEDURE

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.

## HYPERDESMO®-PB-1K FC

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.

### Application:

Apply with brush, spatula, or airless spray.

### CONSUMPTION

Total consumption: **2 kg/m<sup>2</sup>** in one or two coats.

### CLEANING

Clean tools and equipment first with paper towels and then using SOLVENT-01.

### PACKAGING

1 kg, 5 kg, 25 kg

### SHELF LIFE

Can be kept for 12 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 INFORMATION

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.

## TECHNICAL SPECIFICATIONS

### In liquid form (before application):

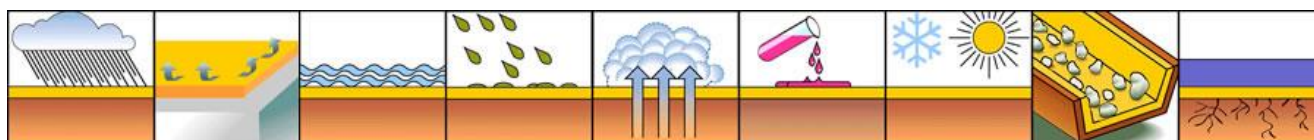
| PROPERTY                                 | UNITS              | METHOD                                     | SPECIFICATION |
|--|--------------------|--|---------------|
| Viscosity (Brookfield)                   | cP                 | ASTM D2196-86, @ 25 °C                     | 3,000-5,000   |
| Specific weight                          | gr/cm <sup>3</sup> | ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C | 1.25-1.35     |
| Flash point                              | °C                 | ASTM D93, closed cup                       | > 50          |
| Tack free time, @ 77 °F (25 °C) & 55% RH | hours              | -  | 1-2 hours     |
| Recoat time                              | hours              | -  | 6-24          |

## HYPERDESMO<sup>®</sup>-PB-1K FC

### 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 <sup>2</sup><br>(N/mm <sup>2</sup> ) | ASTM D412 / EN-ISO-527-3          | >20<br>(>2)   |                                      |
| Percent elongation @ 23 °C            | %  | ASTM D412 / EN-ISO-527-3          | > 800   |                                      |
| Adhesion to concrete                  | kg/cm <sup>2</sup><br>(N/mm <sup>2</sup> ) | ASTM D4541                        | Without primer:<br>>0.5 N/mm <sup>2</sup><br>(EOTA minimum requirement) | With primer:<br>>2 N/mm <sup>2</sup> |
| Thermal resistance (200 days @ 80 °C) | -  | EOTA TR011                        | passed  |                                      |
| H <sub>2</sub> O absorption (10 days) | -  | -                                 | < 1.0%  |                                      |

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