

# FLX 388 PU

## ONE-COMPONENT POLYURETHANE-BASED WATERPROOFING MEMBRANE

ACCORDING TO  
EN 1504-2

### DESCRIPTION

One-component, polyurethane-based membrane, suitable for waterproofing horizontal surfaces. It offers high protection against humidity (suitable for surfaces with

standing waters) as well as very high protection against solar ultraviolet (UV) radiation and mechanical stressing.

### APPLICATION FIELDS

**FLX 388 PU** is used for waterproofing flat roofs, balconies, plastered walls, cementitious mortars, gutters, etc. it is suitable for application on the following substrates:

cementitious mortars, concrete, bricks, tiles, aluminium, bitumen sheets lined with aluminium, zinc, wood, etc. It can also be applied on existing polyurethane and acrylic layers.

### ADVANTAGES-CHARACTERISTICS

- Perfect waterproofing, resistance to standing waters, high performance, elasticity and walkability.
- Resistant to humidity and ultraviolet radiation.
- Suitable for cracks up to 1.5mm.
- Guaranteed long-term protection of the substrate.
- User-friendly, it neither peels off nor contributes to the development of fungi and maintains its properties at temperatures between -15°C and +80°C.
- It reflects solar radiation and offers lower temperatures in the summer.

- Economical solution and perfect results.
- High mechanical strength.
- It is applied easily and offers a smooth and snow-white surface. It never fades and prevents dust and dirt from staying on the surface. No holes are created on the surface during the maturation of the material.
- It can be applied even on cloudy days because the final polymerization of the material is carried out through evaporation, thus cloudy conditions are also favourable.

### SUBSTRATE PREPARATION

The substrate should be steady and all loose materials should have been removed. Wash the substrate with plenty of water under pressure in order to remove any remains, such as dust, oil and grease. Remove also all standing water. In case the concrete is decayed or there are cracks wider than 1 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 high penetration primer **GLX 292 FLEX PRIM** or with **STATUS DUR** solvent primer. The substrate should be completely dry before application.

### 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%. **FLX 388 PU** takes the form of a membrane 7 days after application.

## PACKAGING – STORAGE

Available in 13kg plastic containers. Store in the original, sealed containers, in dry and cool places, at temperatures between +5°C and +35°C, protected against direct sunlight and frost for 24 months after production date.

## APPLICATION RATE

1.0-1.2 Kg/m<sup>2</sup> for 2 layers (cementitious surface).

## 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**

## CLEANING OF TOOLS – STAINS

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.

## TYPE ACCORDING TO THE EUROPEAN STANDARD EN 1504-2

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Appearance/Colour			Thick liquid/White
Density	(kg/l)	(EN ISO 2811-1:2011)	1.34 – 1.36
Application Rate - 2 layers (cementitious surface)	(Kg/m <sup>2</sup> )		1-1.2
Touch Dry (+25°C)	(h)		2-3
PH	(mm)	(ISO 1148)	8-9
Recoating (+25°C)	(h)		24
Maximum Deformation Strength	(N)	(ASTM D 412-06a)	34.95 ± 2.15
Tensile Strength	(MPa)	(ASTM D 412-06a)	2.28 ± 0.16
Deformation under Maximum Strain	(%)	(ASTM D 412-06a)	475.15 ± 33.04
Deformation after Breakage	(%)	(ASTM D 412-06a)	486.57 ± 33.30
Elasticity Modulus	(MPa)	(ASTM D 412-06a)	1.83 ± 0.10
Adhesive Strength	(N/mm <sup>2</sup> )	(EN 1542:2001)	2.54
Hardness Shore A		(ASTM D2240)	68
Operating Temperatures	(°C)		-15 to +80
Water Absorption Coefficient	(kg/m <sup>2</sup> min <sup>0.5</sup> )	(EN 1062-3:2008)	0.00
Permeability CO <sub>2</sub>	(g/m <sup>2</sup> d)	(EN 1062-6:2002 Method A)	1.7
Resistance Coefficient μ		(EN 1062-6:2002 Method A)	14536
Coefficient S <sub>d</sub>	(m)	(EN 1062-6:2002 Method A)	154.08
Water Vapour Permeability Δ	(g/cm <sup>2</sup> d <sup>-1</sup> )	(ISO 7783-1:1999)	0.00307
Resistance Coefficient under Diffusion μ		(ISO 7783-1:1999)	451.4
Coefficient S <sub>d</sub>		(ISO 7783-1:1999)	4.78
Solids by weight	(%)	(ASTM D5201)	67

**Note:** The measurements were taken in laboratory environment under a temperature of +23°C, Relative Humidity 50 % and without ventilation. They may vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation and absorbability of the substrate and the tile.

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.