FLX 385 HYBRID
WATERPROOFING EMULSION HYBRID

ACCORDING TO EN 1504-2

DESCRIPTION

FLX 385 HYBRID is a new technology, hybrid, solvent-free, elastic sealing membrane for roofs. It is highly resistant to humidity, ultraviolet radiation and low temperatures. The surfaces coated **FLX 385 HYBRID**, due to their whiteness reflect solar radiation limiting thus the heat transmission to the buildings' interior. It is suitable for coating bituminous membranes with or without mineral chipping.. It is highly elastic and it is highly recommended for surfaces presenting contractions-expansions and vibrations. It is suitable for application on concrete, plaster, AAC concrete and other common substrates based on cement or ceramic. The surfaces that are coated with **FLX 385 HYBRID** become absolutely waterproof.

FIELDS OF APPLICATION

Suitable for waterproofing flat, nipple and curved roofs, terraces, balconies, gutters, cementitious gutters in old and new constructions and for application to roofs in order to withstand standing water. It is applied on concrete, cement based floor screed, cement slabs, tiles, mosaic and bituminous membranes. It is also suitable for application on surfaces made of glass, wood, metal, galvanized sheet metal, "ELENIT", ceramic tiles, natural stones and bituminous membranes with aluminum coating. It is used to seal corners and filling small cracks (up to 2 mm), as well as in the concrete slab connections up to 1 mm. It has excellent adhesion to polyurethane waterproofing layers and thermal insulation polyurethane based products, or polycarbonate panels. Finally, by applying it proximal and below photovoltaic panels it does enhance their efficiency.

ADVANTAGES - FEATURES

- Perfect sealing, resistance to standing water, high performance and elasticity.
- Resistance to humidity and UV radiation.
- Adequate for cracks up to 1mm.
- Long-term protection of the substrate.
- Non toxic, eco friendly, does not chip off and does not develop fungi.
- Reflects sunlight and provides coolness in summer.
- Economic solution for perfect result.
- Occasional light foot traffic.
- Easy to apply giving smooth high surface whiteness, resistant to yellowing, prevents deposits of dust and dirt.

SUBSTRATE PREPARATION

The substrate must be stable, the brittle material must have been removed and it must be washed with plenty of pressurized water to remove dust. Moreover, standing waters must be removed. If the concrete is worn or in case of cracks wider than 1 mm there must be prior repair of all defections. For application on absorbent substrates or old concrete, apply **GLX 292 FLEX PRIM** or **STATUS DUR** primer.Before using the product, the substrate must be fully dried. The expansion joints, the joints between horizontal and vertical surfaces and the construction joints should be reinforced with **KF 12/7** or **F12/7**, by bonding them to substrate using **FLX 385 HYBRID**.

APPLICATION

The application is made by brush, rubber spatula or longhaired roller, making sure the material to penetrate and fill each cavity. The product is applied crosswise in two layers. The thickness of each layer should be 0,4-0,5mm. The second coat is applied as soon as the first one has fully dried (12-24h). The total thickness should be less than 0,8-1mm. If the substrate has small cracks, embed a nonwoven, perforated polypropylene sheet between the two layers. After application and for the next two days, the surfaces must not get wet from rain or water.

PACKAGING - STORAGE

The product is packed in plastic containers of 4kg and 12kg and it is stored in sealed packaging in enclosed, ventilated and protected from frost areas for 24 months from the production date.

DRYING - RECOATABILITY

Dries in 2-3 hours, so as not to touch fouls. Recoated after 12-24 hours. Full resistance to washing after 4 weeks. Drying times refer to normal ambient conditions (25 ° C, 60% humidity). Any differences in temperature and humidity of the environment can alter the above times.

CONSUMPTION

To ensure complete sealing and long lasting performance we make sure that the consumption is 0,8-1,5 Kg/m^2 (for two layer application, depending on the type of the surface).

SHADES

- White

APPLICATION TOOLS

Easy application with longhaired roller, brush or trowel on horizontal, sloping and vertical surfaces.

TOOL CLEANING

Immediately after use, drain well the color inside the box and clean all tools with warm water and soap. Do not empty washings into the groundwater.

VOLATILE ORGANIC COMPOUNDS (VOC)

- Maximum allowable VOC content (Directive 2004/42/EC) for the product category A/c 'Coatings & exterior walls of mineral substrate, type Y,

PHASE II: 40 gr / lt.

- Maximum VOC content of the product ready for use: 35 gr / lt

APPLICATION TEMPERATURE

Do not apply at temperatures below +10ºC and above +35 ºC or before rain. When applying, the surface should not come into direct exposure to solar radiation. Adverse conditions during or immediately after application may degrade paint's quality.

NOT RECOMMENDED

- On surfaces with intense traffic.
- On surfaces that are constantly under water or relative humidity higher than 85%.
- In weak or dusty substrates.
- On new bituminous coatings or asphalt.
- In sealed indoor areas.

PRECAUTIONS

Protect eyes and skin. In case of contact rinse with water. In case of contact with eyes seek medical advice immediately. Read the information on the label and in the Technical leaflet of the product before use. Wear suitable protective clothing and gloves.

MSDS is available upon request to the professionals. The leftover colors should not be disposed of with household waste. You should seek advice from local authorities on the disposal and collection of waste.

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ACCORDING TO THE EUROPEAN STANDARD EN1504-2

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Form			Paste
Type			Dispersion of polyurethane modified acrylic resins
Density (20°C)	(g/ml)	EN ISO 2811.01-02	1,25 ± 0,03
Viscosity	(cps)	Brookfield Viscometer (10 rpm – spindle 5 - 20°C)	32000 ± 5000
Elongation at break	(%)	ASTM D 412 – 98a	400
Tensile strength	(N/mm^2)	ASTM D 412 – 98a	≥2,0
Dilution with water for application with roller, brush or paintbrush	(% v/v)		5-10
Water vapour permeability (w)	($kg \cdot m^{-2} \cdot h^{-0,5}$)	EN 1062-3	<0,1
Adhesion strength	(N/mm^2)	EN 1542	≥0,8
Water vapour permeability (Class)	(Class)	EN ISO 7783-1 & 2	I (vapor permeable)
Permeability to CO_2	(Sd)	EN 1062-6	>50
Artificial weathering (after 2000h)		ISO 11507-97	No alteration of the film occurs
Resistance to oils and solvents			Excellent
Flammability			Όχι
Toxicity			Όχι
Organic solvents			Όχι

Note: *The measurements were made in laboratory environment under temperature of +23^{0}C, Relative Humidity 50 % and without ventilation. It is possible to vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation, absorbability of the substrate.*