

Flexgum

Description

Acrylic-polyurethane coating for waterproofing cycles of the FLEXGUM series. With a smooth finish, highly waterproof and resistant to the UV component of solar radiation. Once dry, it is elastic and has a low dirt pick-up; these characteristics enhance the lifetime of the paintwork, mitigating the normal deformations of the substrate and slowing down the photodegradation caused by UV rays. It allows to save on energy consumption for the air conditioning of interior environments, thanks to a high SRI value.

Uses

As a top-coat for waterproofing cycles based on liquid roof coatings in aqueous emulsion.

Surface preparation

Bitumen or cement substrates: for new applications on bituminous or cementitious substrates, ensure that FLEXGUM PRIMER has been properly applied as for Technical Data Sheet instructions. Ensure that the undercoat layers are perfectly dry and free from traces of dust and other contaminants.

Old waterproofing liquid roof coatings: in case of application on old waterproofing coatings/membranes, test for wear and tear, paying particular attention to the adhesion of the polymeric layers to the substrate and possible chalking. If the layers are in good conditions, remove dust (if present) and ensure that the surface is perfectly clean and dry before proceeding with the application.

Should the old layers of coating appear in poor conditions, remove all flaking parts with a metal brush, then thoroughly clean with pressurized water. Once the surface has dried, locate areas that require restoration; if the layers of coating are homogeneous but worn out, consider the application of FLEXGUM PRIMER in order to reclaim the mechanical characteristics of the substrate before proceeding with FLEXGUM.

Application

Apply at least 2 coats of product with a short-fibred roller, aiming at a wet thickness of about 150 µm. On old coatings, apply a first coat of product diluted with 10-15% of water.

To enhance the protective effect of the product and the lifetime of the work, it is advisable to reinforce FLEXGUM with a woven-non-woven fabric (preferably made of hydrophilic polypropylene with a weight of 70 g/m², such as TEXTURE i70), by applying a first plentiful coat of product, placing the fabric into it and then recoating wet-on-wet with a second layer of product. This improves the mechanical resistance of the whole paintwork, especially in

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proximity of critical points, such as: drainpipe hoppers, intersections with balustrades and chimneys, et cetera. Moreover, it allows the restoration of surfaces presenting small cracks.

Do not apply on surfaces exposed to sun, nor with temperatures above 35°C. It is therefore advisable, in summertime, to apply the product at evening hours.

Do not apply on substrates whose temperature is lower than 7°C in order to ensure proper film formation.

Mix well before use.

Dilution

Ready to use. Add max. 5% of water.

Cleaning tools

With water immediately after use.

Storage

12 months in sealed container, away from sources of heat, in a cool and ventilated place, protected from frost.

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Technical data

PRODUCT	Top-coat based on elastomeric acrylic-polyurethane emulsion
SPECIFIC WEIGHT	1,250 ± 0,050 kg/l
VISCOSITY	25000 ± 2000 cP Brookfield at 23°C
COLOUR	White
GLOSS (20°, 45° and 85°) (UNI EN ISO 2813:2016)	Matt (g.u.=1)
LIQUID WATER PERMEABILITY (UNI EN 1062/3-2001)	Class W3 (W=0,02, low)
WATER VAPOUR TRANSMISSION (UNI EN ISO 7783-2012)	Class V2 (V=23, medium)
DIRT PICK-UP (UNI 10792-1999)	Very low ($\Delta L=0,77$)
CRACK-BRIDGING (UNI EN 1062-7:2005 METHOD A)	Class A3 (crack width >500 μm)
SRI- SOLAR REFLECTANCE INDEX (ASTM E 1980-01:2011)	104
RECOMMENDED THICKNESS	90-110 dry μm for each coat
RECOMMENDED COATS	2 coats
RECOAT TIME	After at least 18 hours
APPLICATION METHOD	Short-fibred roller
THEORETICAL YIELD	2-2,5 m^2/l for 2 coats
THEORETICAL YIELD (WITH FABRIC)	1-1,5 m^2/l
DUST-FREE TIME	5-6 hours
TOUCH-DRY (23°C)	11-12 hours
DEEP-DRY (23°C)	24 hours
MAXIMUM CHEMICAL RESITANCE	7 days

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PARAMETERS AFTER EXPOSURE TO XENON-ARC LAMP (UNI EN ISO 16474-2:2004 except par. 6)

GLOSS (20°, 45° and 85°) (UNI EN ISO 2813:2016)	Matt (g.u.=1)
WATER VAPOUR TRANSMISSION (UNI EN ISO 7783:2012)	Class V3 (V=14, low)
DIRT PICK-UP (UNI 10792-1999)	Medium ($\Delta L=10,68$)
COLOUR DIFFERENCES CIEDE2000 (UNI EN ISO 11664-6:2016)	$\Delta E=3,38$ $\Delta L=-2,37$ $\Delta a=-0,62$ $\Delta b=2,33$
PULL-OFF TEST FOR ADHESION (ISO 4624:2016 method 8.4.2)	1MPa 100% A/B (A=substrate, B=layer of FLEXGUM PRIMER, C=FLEXGUM)

PARAMETERS AFTER EXPOSURE TO ENVIRONMENTAL THERMAL CYCLES (VW PV 2005)

PULL-OFF TEST FOR ADHESION (ISO 4624:2016 method 8.4.2)	1MPa 90% A – 10% A/B (A=substrate, B=layer of FLEXGUM PRIMER, C=FLEXGUM)
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