



PRODUCT	Polyroof Mono
MISSION	One component polyurethane liquid waterproofing
CHARACTERISTICS	<p>Polyroof Mono is a one component waterproofing liquid coating and ready to use. The product, reacting with the moisture of the environment, once hardened, creates a continuous waterproofing coating without joints, elastic and walkable. This can be used to waterproof balconies, terraces, roofing with complex geometry.</p> <p>The product is been test according the EN 13501 – 5 (fire classification of construction products and building elements) obtaining a B_{roof-t4} certification.</p> <p>Polyroof Mono is also resistant to water pooling and has a good resistance to UV rays (its aromatic composition can cause a mild light change of colour without compromising the technical characteristics).</p> <p>At perimeter or expansion joints and in connections between different substrate materials, the use of elastic reinforcement bands from the CasaBand or Acryfelt Band Line selected according to the specific requirement is strongly Recommended.</p> <p>Once hardened, the product can be painted with Polytop to obtain a higher aesthetic result. Finally, tiles can be applied directly on the Polyroof Mono; in this case the last coats must be soaked with quartz sand.</p>
APPEARENCE	Medium viscosity colored liquid

CHARACTERISTICS OF THE LIQUID PRODUCT

CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Specific weight	1,60	± 0,05	Kg/dm ³
Dry residue	90	± 1	%
Viscosity at 20° C	7500	± 500	mPa.s

APPLICATION INSTRUCTIONS

TOOLS	THINNING	TYPE OF THINNER	TOOL CLEANING
Roller	Ready to use		DIL A1
Brush	Ready to use		DIL A1
Spray	Ready to use or MAX 5 - 8 %	DIL A1	DIL A1

LAYING SURFACE	<p>The cement laying surface must be clean, free of oils and dust; loose parts and possible soluble salts must be removed before the application. To prevent tearing of the contact surface during the catalysis, by the resin, the compression resistance must be at least 25 N/mm² and the traction resistance 1,5 N/mm². In case the humidity of the substrate is equal or higher than 3%, before carrying out a resining cycle with Polyroof mono, it is necessary to lay a chemical barrier such as Epobase FU14. If you prefer to use an epoxy cement such as Epocon 312 Tixo, we recommend priming with Epobase A primer before applying Polyroof Mono in order to improve adhesion.</p> <p>It is always recommended to make a mechanic treatment to remove inconsistent parts and improve the roughness of the laying surface, increasing its adhesiveness.</p>
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	<p>Afterwards, it's advisable to apply a primer according to the state of laying surface (consult the Casali S.p.A. Technical Department). On bituminous substrates, the membrane must be clean and free of release agents. In the case of slate-covered substrates, all loose flakes must be removed. In any case, it is recommended to prime the substrate with Acrybase S (a solvent-based synthetic primer) before applying Polyroof Mono. For different substrates, contact the Casali S.p.A. Technical Office. All necessary repairs must be carried out before applying Polyroof Mono.</p>
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CONSUMPTION	<p>As a non-reinforced layer: 1.2-1.7 kg/ m² in two coats As a reinforced system: 1.4-2 Kg/m² in two coats As waterproofing under tiles: 2.2Kg/ m² in two coats with the use of reinforcement and quartz powder 0.3-0.5</p>
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APPLICATION INSTRUCTIONS	<p>Homogenize before use. Environmental and deck temperature limit during application: MIN 5° C - MAX 30° C</p>
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HARDENING AT 22° C AND 50 % U.R.	<p>Pot life: 30' / 45' To touch: 7-9 h Interval between coatings: within 24 h</p> <p>The timing indicated above are intended for standard laboratory conditions. Drying times are strongly affected by weather conditions; high temperatures and direct sunlight reduce the drying times; low temperatures and high humidity increase the drying times. In the wintertime the product should be laid in the middle of the day when it is warmer. Ensure that the previous layer has dried properly before applying the next layer.</p>
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CHARACTERISTICS OF THE DRY PRODUCT			
CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Breaking load	4,00	± 0,05	MPa
Elongation at break	>450	± 50	%
Shore A hardness	70	± 2	
Adhesion on CLS	2,2	± 0,05	MPa
Permeability to water vapour	20		g/mq day
Fire reaction class according to EN 13501 - 5	B _{roof} -t ₄		
Resistance to ageing according to EN 1297 (weathering test)	Accordant		
Water vapor permeability (UNI 1062)	V3 = low		
Water permeability (UNI 1062)	W3 = low		

PACKAGING INSTRUCTIONS	COLOURS AVAILABLE Grey (RAL 7001) - others on request	PACKAGING 25 Kg
STORAGE INSTRUCTIONS	STORAGE TEMPERATURE MIN 10° C – MAX 35° C	STABILITY IN THE ORIGINAL PACKAGE 12 months
SAFETY STANDARDS	Please read the safety data sheet carefully before using this product.	





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1381-CPR-490
EN 1504-2 : 2004
Products used to protect concrete decks

Polyroof Mono

One component polyurethane liquid waterproofing

Liquid water permeability	< 0.1 Kg/sq.m. · h ^{0,5}
Permeability to carbon dioxide	sd > 50 m
Adhesion to standard traction	2,1 MPa
Permeability to water vapour	Class I
Hazardous substances	See SDS
Class reaction to fire	B _{roof} – T4

