



PRODUCT	Acryroof
MISSION	Highly elastic synthetic resin based liquid waterproofing anticarbonation in water emulsion
CHARACTERISTICS	Acryroof is a synthetic resin based elastomer liquid membrane in water emulsion used to waterproof any type of complex structured deck (domes, undulated, irregular or flat decks, cement decks in general, tiled patios, damaged bituminous membranes, sheet plate, plaster and to protect under-floor or retaining wall waterproofing) without pooling. In the case of major waterproofing, we recommend the insertion of reinforcement (Acrymat 225, Acrynet 75, Acryfelt T1 or Acryfelt Mesh) impregnated with Acryroof in order to improve the mechanical properties. After curing, Acryroof becomes a seamless waterproofing membrane, with elastic behaviour that adapts to settlement and thermal stress movements of the deck. The type of synthetic resins used and appropriate additives ensure that the product is practically inert to UV radiation with excellent resistance to ageing. Acryroof is tested following the EN 1297 standard (method of artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water) resulting in accordance. Thanks to the fact that Acryroof is white its reflective properties considerably reduce overheating in rooms. Acryroof can be also applied as anticarbonation protective finish coat on concrete, external facades and cementitious surfaces in general; thanks to his characteristics of transpirability and waterproofing avoid the contact between concrete and water to prevent degradation phenomena.
APPEARENCE	Viscous pigmented paste

CHARACTERISTICS OF THE LIQUID PRODUCT

CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Specific weight	1,33	± 0,05	Kg/dm ³
Dry mass residue	65	± 1	%
Dry volume residue	22	± 1	%
Brookfield viscosity (with Brookfield viscosimeter, rotor n. 4, speed 5)	15000	± 2000	mPa.s
pH	8 - 9		

APPLICATION INSTRUCTIONS

TOOLS	THINNING	TYPE OF THINNER	TOOL CLEANING
Brush	Ready to use		Water
Roller	Ready to use		Water
Spray	Approx. 10 %	Water	Water

LAYING SURFACE	Ensure that the deck is clean removing all traces of dirt, grease and loose parts, if necessary, repair excessive roughness and ensure sufficient slope to ensure rainwater runoff.
-----------------------	---







	The deck should be perfectly dry and any residual moisture, measured on the screed, should be under 3%. If not, install vents or vapour barriers depending on the type of deck (please contact Casali's Technical Office).
CONSUMPTION	Approx. 1.5 Kg/sqm applied in two coats as waterproofing and 0,4 – 0,5 Kg/sqm in 2 coats as anticarbonation coat (dry film thickness 170 – 220 µm)
APPLICATION INSTRUCTIONS	Temperature limit during application: MIN 10°C - MAX 40°C. Product must be perfectly dry before exposure to fog, rain or frost.
DRYING AT 23° C AND 50 % U.R.	On surface: 30' To touch: 1 h Interval between coatings: 5 h The times shown are intended for standard laboratory conditions. Drying times are strongly affected by weather conditions; high temperatures and direct sunlight reduce the drying times; areas in shadow, low temperatures and high humidity increase the drying times. In winter 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.

CHARACTERISTICS OF THE DRY PRODUCT			
CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Breaking load	1,57	± 0,1	N/mm ²
Elongation at break	500	± 50	%
Flexibility at low temperatures	- 20	± 2	° C
Flexibility at low temperatures after UV ageing	- 15	± 2	° C
Flexibility at low temperatures after thermal ageing	- 15	± 2	° C
Resistance to abrasion (weight loss): (mole CS10, 1000 g, 1000 rpm)	28	± 4	mg
Shore A hardness	50	± 5	
Adhesion	3,2	± 0,1	N/mm ²
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 White, grey, green, red, Dark brown (805) * · tile red (806) * and other colours on request. *) only available in 1 and 5 Kg tins)	PACKAGING 1 – 5 – 10 – 20 Kg
STORAGE INSTRUCTIONS	STORAGE TEMPERATURE MIN. 3°C - MAX 40°C	STABILITY IN THE ORIGINAL PACKAGE 12 months
SAFETY STANDARDS	Please read the safety data sheet carefully before using this product.	





 1381	 Zona Industriale C.I.A.F. – Castelferretti (AN) – 60015 www.casaligroup.it																
<p>14 1381-CPR-490 EN 1504-2 : 2004 Products used to protect concrete decks</p> <p>Acryroof One-component synthetic resin based waterproofing liquid in water emulsion used to protect concrete against the penetration; humidity control and improved resistivity</p> <table><tr><td>Liquid water permeability</td><td>< 0.1 Kg/sq.m · h^{0.5}</td></tr><tr><td>Permeability to carbon dioxide</td><td>sd > 50 m</td></tr><tr><td>Adhesion to standard traction</td><td>≥ 0.8 MPa</td></tr><tr><td>Permeability to water vapour</td><td>Class I</td></tr><tr><td>Crack bridging ability</td><td>Class A5</td></tr><tr><td>Freeze-thaw cycles with immersion in thawing salt</td><td>no alteration</td></tr><tr><td>Hazardous substances</td><td>See SDS</td></tr><tr><td>Class reaction to fire</td><td>B_{fl} – S₁</td></tr></table>		Liquid water permeability	< 0.1 Kg/sq.m · h ^{0.5}	Permeability to carbon dioxide	sd > 50 m	Adhesion to standard traction	≥ 0.8 MPa	Permeability to water vapour	Class I	Crack bridging ability	Class A5	Freeze-thaw cycles with immersion in thawing salt	no alteration	Hazardous substances	See SDS	Class reaction to fire	B _{fl} – S ₁
Liquid water permeability	< 0.1 Kg/sq.m · h ^{0.5}																
Permeability to carbon dioxide	sd > 50 m																
Adhesion to standard traction	≥ 0.8 MPa																
Permeability to water vapour	Class I																
Crack bridging ability	Class A5																
Freeze-thaw cycles with immersion in thawing salt	no alteration																
Hazardous substances	See SDS																
Class reaction to fire	B _{fl} – S ₁																

