



PRODUCT	Acryroof Plus
MISSION	One-component synthetic resin based waterproofing liquid, in water dispersion resistant to pooling
CHARACTERISTICS	Acryroof Plus is a one-component liquid membrane in water emulsion, with CE marking in compliance with EN 1504-2. Its special formulation makes it resistant to water pooling, making it the perfect choice for waterproofing flat roofs, terraces, balconies or repairing old membranes (after a coating of primer Acrybase S), etc. After curing, Acryroof Plus becomes a seamless waterproofing membrane, whose elastic behaviour follows the micro-movements caused by thermal stress of the deck: in the case of strong mechanical stress, use a reinforcement (Acrymat 225, Acrynet 75, Acryfelt Mesh or Acryfelt T1 depending on the type of deck - contact Casali's Technical Office for more information) that should be soaked with the liquid product. 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. Thanks to its excellent resistance to ageing and ultraviolet rays, Acryroof Plus requires no additional protection. Acryroof Plus 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. The resulting deck may be walked on for normal maintenance works. The product may not be used to paint swimming pools and/or drinking water tanks and reservoirs. When laid on terraces and balconies, the ceramic covering may be glued directly on the deck with a glue suitable for outdoor application (C2), without laying a concrete screed (Acryroof Plus is tested as under tile waterproofing in compliance with EN 14891: 2012). Acryroof Plus is resistant for accidental contact to aggressive pH (from 3 to 12); see the table below for more information. Acryroof Plus can also be used as carbonation protective coat on concrete, external facades and cementitious surfaces. Acryroof plus, in the white version, has an excellent "cool roof" effect thanks to an SRI of 103.3 certified by the prestigious Istituto Giordano. Acryroof Plus has been tested for hail resistance according to the UNI EN 13583:2012 standard. Test carried out with a 40 mm diameter steel ball thrown at increasing speed until the product lost its waterproofness. On a rigid support Acryroof Plus resists a maximum ball impact speed of 30 m/s (i.e. 108 km/h), on a soft support the resistance is equal to 20 m/s (72 km/h).
APPEARENCE	Viscous coloured liquid

CHARACTERISTICS OF THE LIQUID PRODUCT

CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Specific Weight:	1,34	± 0,1	Kg/dm ³
Dry residue	62,4	± 2	%
Brookfield viscosity (with Brookfield viscometer rotor 5, speed 20)	9100	± 1000	cPs



La Casali S.p.A. si riserva di modificare senza alcun preavviso i dati contenuti nella presente scheda tecnica. L'uso, sia proprio sia improprio, del prodotto indicato nella presente scheda, ricade sotto l'esclusiva responsabilità dell'utilizzatore che è tenuto a una valutazione preventiva dell'idoneità del prodotto alle proprie esigenze, nonché, alla massima cura nell'utilizzo di qualsiasi prodotto chimico. L'Ufficio Tecnico della Divisione Sintetici Casali resta a disposizione per chiarimenti e per rispondere a richieste specifiche derivanti dalla natura dell'opera (tel. 071 9162095).



APPLICATION INSTRUCTIONS			
TOOLS	THINNING	TYPE OF THINNER	TOOL CLEANING
Brush	Ready to use, 5% if applied directly on cement decks	Water	Water
Roller	Ready to use, 5% if applied directly on cement decks	Water	Water
Spray gun	Approx. 10 %	Water	Water

APPLICATION TO AIR-LESS			
DILUTION		0%	
PUMP MODEL	DRAGON (LARIUS)	NOZZLE TYPE AND SIZE	SFC 27-60
GUN MODEL	L91X	FILTER MANAGEMENT	Without filters
GUN TUBE DIMENSIONS	3/8" x 15 Mt	PUMP SET PRESSURE	200 BAR

The data reported above are the result of tests carried out by our Technical Office in collaboration with our technical partner Larius, aimed at identifying the ideal equipment and setup for the most correct, easy and effective installation of the product.

In the case of spray applications, the dilution of the product and the preparation may vary depending on the type of pump used.

It is always recommended to carry out preventive tests before using the product with air-less equipment.

LAYING SURFACE	Clean the deck, removing all traces of dirt, grease and loose parts; smooth the deck if the surface is very rough. The deck should be perfectly dry and any residual moisture on the screed should be under 3%. If the moisture level is higher, vents or vapour barriers should be installed, according to the type of deck (please contact Casali's Technical Office for more information).
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CONSUMPTION	The total recommended coverage is about 1-1,2 kg/sqm (2 coats) - If the product contains reinforcement, coverage is approximately 1,5-2 kg/sqm in 2 or more coats. If applied as carbonation protective the consumption is 0,4 – 0,5 Kg/sqm in 2 coats (dry film thickness 185 – 230 µm).
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APPLICATION INSTRUCTIONS	Application temperature range: MIN 8°C – MAX 40°C Ensure that the product has cured thoroughly before exposure to fog, rain or frost. Please contact Casali's Technical Office for any explanations you may require before using the product. Thinning for spray applications may vary according to the type of pump used; please test before using the product.
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DRYING AT 23° C AND 50 % U.R.	On surface: 30' To touch: 1 h Interval between coatings: 5 h The times indicated refer to standard laboratory conditions. Drying times are strongly affected by the weather; high temperatures and exposure to direct sunlight accelerate drying; shadow, low temperatures and high humidity delay drying. During winter it is advisable to lay the product in the middle of the day when it is warmer. Always ensure
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that the previous layer has cured perfectly before applying a new coating.

CHARACTERISTICS OF THE DRY PRODUCT			
CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Breaking load	1,5	± 0,2	N/sq.mm
Elongation at break	300	± 60	%
Flexibility at low temperatures	-12	± 1	° C
Resistance to ageing according to EN 1297 (weathering test)	Accordant		
SRI according to ASTM E1980 (white version)	103,3		
Water vapor permeability (UNI 1062)	V3 = low		
Water permeability (UNI 1062)	W3 = low		
Hail resistance (UNI EN 13583:2012)	Rigid support: 30 m/s		
	Soft support: 20 m/s		

PERFORMANCE IN ACCORDANCE WITH EN 14891		
CHARACTERISTICS	VALUE	U.M.
Adhesion strength	0.7	N/sq.mm
Adhesion strength after contact with water	0.5	N/sq.mm
Adhesion strength after thermal ageing	0.5	N/sq.mm
Adhesion strength after freeze-thaw cycles	0.5	N/sq.mm
Adhesion strength after contact with chlorinated water	0.8	N/sq.mm
Adhesion strength after contact with hard water	1.0	N/sq.mm
Determination of impermeability to water (increase in weight)	5.0	g

CHEMICAL RESISTENCES FOR ACCIDENTAL CONTACT AT 30 DAYS	
TEST LIQUID	RESULT
Acetic acid 10 % (pH 4)	Pass
Acetic acid al 50 % (pH 2,5)	Pass
Propionic acid 50 % (pH 4,5)	Pass
sodium hydroxide 20 % (pH 14)	Not pass (14 dd MAX)
Sulfuric acid 20 % (pH 1)	Not pass (14 dd MAX)

The tests were performed internally following the ISO EN 13529 standard. The specimens were inserted into a climatic chamber at 21 ° C throughout the test period.

PACKAGING INSTRUCTIONS	COLOURS AVAILABLE Grey, red, white, green	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.	





CE 1381	 Zona Industriale C.I.A.F. – Castelferretti (AN) – 60015 www.casaligroup.it																
14 1381-CPR-490 EN 1504-2 : 2004 Products used to protect concrete decks Acryroof Plus One-component synthetic resin based waterproofing liquid in water emulsion resistant to pooling used to protect concrete against the risk of penetration; humidity control and improved resistivity <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
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