



PRODUCT	Acryroof Plus Fibro
MISSION	Fibre-reinforced synthetic resin based one-component waterproofing liquid, in water dispersion resistant to pooling
CHARACTERISTICS	Acryroof Plus Fibro is a fibre-reinforced one-component liquid membrane in water emulsion that may be used without reinforcement. Thanks to its special formulation, Acryroof Plus Fibro is resistant to water pooling, making it the perfect choice for waterproofing balconies and terraces (maximum 30 – 40 sq.m); in case of bigger surfaces we suggest to put a reinforcement in the product (see Acryroof Plus technical data sheet). Is also suitable for waterproofing showers, bathrooms and wet areas in general. Acryroof Plus Fibro is highly resistant to UV rays so can be left exposed but at the same time is also possible to glue ceramic tiles directly on it with a proper glue for external use (C2TE – S1 class such as Taurocoll HE Flex), without laying a cement screed (Acryroof Plus Fibro is tested as under tile waterproofing in compliance with EN 14891: 2012). After curing the product becomes a seamless waterproof membrane, whose elastic behaviour follows the micro-movements caused by the thermal stress of the deck. Acryroof Plus Fibro 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. Acryroof Plus Fibro can also be used as carbonation protective coat on concrete, external facades and cementitious surfaces.
APPEARENCE	Viscous coloured liquid

CHARACTERISTICS OF THE LIQUID PRODUCT

CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Specific Weight	1,33	± 0,1	Kg/dm ³
Dry mass residue	62,5	± 2	%

LAYING 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	10%		
PUMP MODEL	THOR (LARIUS)	NOZZLE TYPE AND SIZE	SFC 27-60
GUN MODEL	L91X (modified)	FILTER MANAGEMENT	Without filters
GUN TUBE DIMENSIONS	3/8" x 15 Mt	PUMP SET PRESSURE	220 BAR



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).



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 laying surface 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	Total recommended coverage is about 1,5 kg/sqm applied in two or more coats. If applied as carbonation protective the consumption is 04 – 0,5 Kg/sqm in 2 coats (dry film thickness 185 – 230 µm).
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APPLICATION INSTRUCTIONS	Application temperature range: MIN 10°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. When applying the product on perimeter and expansion joints or any other area subject to high stress, we strongly recommended using Acryfelt Band and/or CasaBand SA (elastic reinforcement bands). WARNING: wait at least two days after the last coating of Acryroof Plus Fibro, before laying the tiles
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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 that the previous layer has cured perfectly before applying a new coating.
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CHARACTERISTICS OF THE DRY PRODUCT			
CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Breaking load	1,5	± 0,2	N/sq.mm
Elongation at break	220	± 70	%
Flexibility at low temperatures	-12	± 1	° C
Length of synthetic fibres	2		mm
Fire reaction according to EN 13501 – 1	B _{fl} – s1		
Resistance to ageing according to EN 1297 (weathering test)	Accordant		



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SRI according to ASTM E1980 (white version)	103,3
Water vapor permeability (UNI 1062)	V3 = low
Water permeability (UNI 1062)	W3 = low

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	0.7	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, white, red, 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.	





 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 Plus Fibro Fibre-reinforced one-component synthetic resin based waterproofing in water emulsion resistant to pooling used to protect concrete against the risk of 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
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