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. When applying the product on perimeter and expansion joints, we strongly recommended the use of Acryfelt Band and/or CasaBand SA (elastic reinforcement bands). Thanks to its excellent resistance to ageing and ultraviolet rays, Acryroof Plus requires no additional protection. 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.
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)	13000	± 2000	cPs

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

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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).

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.

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.

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.

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

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.	

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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

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	$B_{fl} – s_1$