



PRODUCT	Dermacem Fibro
MISSION	Fibre-reinforced cement and synthetic polymer based two-component liquid waterproofing, that may be coloured on request
CHARACTERISTICS	<p>Dermacem Fibro is a fibre-reinforced synthetic polymer and cement based two-component liquid membrane in water dispersion, with CE marking complying with EN 1504-2, used for waterproofing concrete surfaces such as flat roofs, balconies, terraces, bathrooms, etc. and is ideal for irregular structured decks and for waterproofing water containers such as cisterns, tanks, pools and fountains. Thanks to fact that the product contains high-module synthetic fibres, it may be used without reinforcement in appropriate fields of application (recommended for flat surfaces under 30 square meters and vertical surfaces). When used on terraces and balconies, the ceramic covering (tiles) may be glued directly on the surface with a glue suitable for outdoor (type C2), without laying a cement deck (Dermacem Fibro has been tested as under-tile waterproofing in accordance with EN 14891 : 2012). Thanks to its micro-porous structure, the membrane also ensures a certain degree of transpiration to the deck. The membrane is elastic and thus absorbs small cracks due to structural movements caused by settlement of the building and thermal expansion, and also compensates micro-cracks that may appear on the deck due to shrinkage of the cement screeds.</p> <p>Dermacem Fibro is the ideal choice for:</p> <ol style="list-style-type: none">1 - Waterproofing walking surfaces such as balconies, terraces, flat roofs, bathrooms, showers and valley gutters, gluing the flooring directly on the product.2- Restoring old bituminous coverings (with a specific primer, Acrybase S).3- Waterproofing foundations, supporting structures and wherever the application of a bituminous membrane is difficult.4- Waterproofing swimming pools or R.C. water reservoirs.5- Waterproofing irregular-shaped surfaces.6- Protecting cement structures from penetration by aggressive substances in the atmosphere such as carbon dioxide, sulphur dioxide and sulphur trioxide, soluble salts such as chlorides and sulphates in soil and/or sea water7- Waterproofing small parking lots with cement deck (Colorpark system) <p>Dermacem Fibro is also available in three colours on request (red (102D), green (201D) and grey (401D), with the pigment supplied in a pre-dosed container that is added to component A when mixing the product), ensuring excellent UV resistance and making it possible to apply the product as a top layer without any protection (paint or tiles). Dermacem Fibro may also be produced as a coloured product for minimum production batches</p>





APPEARANCE	Component A: milky white liquid. Component B: grey powder.
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CHARACTERISTICS OF THE LIQUID PRODUCT			
CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Specific weight	1,51	± 0,05	Kg/dm ³
Dry residue	76	± 1	%
Mixing ratio A:B by weight	A : B = 2 : 1		

APPLICATION INSTRUCTIONS			
TOOLS	THINNING	TYPE OF THINNER	TOOL CLEANING
- brush - roller - spray	As primer: 15 – 20 % As a membrane: undiluted or diluted 5 % For application by spray gun: approx. 10 %	Water	Water

APPLICATION METHOD	Start applying the waterproofing by laying the embossments and perimeter corners with the reinforcement bands Acryfelt Band and/or Casaband SA. Pour component B (powder) into component A (resin) slowly, and mix with a propeller mixer to obtain a perfectly smooth and lump free mixture, scraping the powder from the bottom and sides. The product may be applied by roller or brush, as a primer to fix suspended particles on the deck, diluting the product by 15-20%; when used as a membrane on the finishing layer, the product may be used "as is" or diluted with 5% water.
RECOMMENDED PRIMER	Acrybase S on bituminous decks. Multifixo 100 on metal non-porous decks Epo base FU 14 or Epocon 312 Tixo on decks subject to vapor pressure

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).
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CONSUMPTION	Approx. 1,8 – 2 Kg/sqm
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APPLICATION INSTRUCTIONS	Environmental and deck temperature limit during application: MIN 5 - MAX 40°. Product may be applied on surfaces subject to water pooling. Do not apply the product in frost conditions, rain or snow.
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DRYING AT 23° C AND 50 % U.R.	<p>Pot life: 60' On surface: 30' To touch: 1 h 30' Interval between coatings: 5 – 6 h</p> <p>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.</p>
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CHARACTERISTICS OF THE DRY PRODUCT			
CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Breaking load (without reinforcement)	1,9	± 0,2	N/mm ²
Elongation at break (without reinforcement)	30	± 5	%
Permeability to water vapour (on membrane thickness of 700 micron)	16	± 3	g/mq-24 h
Flexibility at low temperatures	-20	± 2	° C

PACKAGING INSTRUCTIONS	COLOURS AVAILABLE Standard grey, red (102D), green (201D), grey (401D)	PACKAGING A + B = 10 – 20 Kg
STORAGE INSTRUCTIONS	STORAGE TEMPERATURE MIN. 3° C – MAX 40° C	STABILITY IN THE ORIGINAL PACKAGE 6 months
SAFETY STANDARDS	Please read the safety data sheet carefully before using this product.	

PERFORMANCE IN ACCORDANCE WITH EN 14891		
CHARACTERISTICS	VALUE	U.M.
Adhesion strength	0.5	N/sq.mm
Adhesion strength after contact with water	0.5	N/sq.mm
Adhesion strength after thermal ageing	0.7	N/sq.mm
Adhesion strength after freeze-thaw cycles	0.6	N/sq.mm
Adhesion strength after contact with chlorinated water	0.6	N/sq.mm
Adhesion strength after contact with hard water	0.6	N/sq.mm
Determination of impermeability to water (increase in weight)	6.2	g



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<p>14 1381-CPR-490 EN 1504-2 : 2004 Products used to protect concrete decks</p> <p>Dermacem Fibro Fibre-reinforced two-component synthetic resin and cement based waterproofing in water emulsion used to protect concrete against 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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