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| PRODUCT         | <b>Dermacem Fibro</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| MISSION         | Fibre-reinforced cement and synthetic polymer based two-component liquid waterproofing, that may be coloured on request, suitable for the containment of drinking water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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 his great resistance to the chlorine pool treatments. Dermacem Fibro is also available in the light blue color that can be used in the waterproofing system for pool or only like final coat. Dermacem Fibro can be used for the waterproofing of tanks for the containment of drinking water because has been tested by the Isogea S.r.l. lab, with test report n. 26950020/21, according to the D.M. 186/06, the D.lg. 152/06 and the D.M. 06/04/2004 n. 174 (these ones follows the CE directive 98/83 of the European community) resulting in accordance.</p> <p>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).</p> <p>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"> <li>1 - Waterproofing walking surfaces such as balconies, terraces, flat roofs, bathrooms, showers and valley gutters, gluing the flooring directly on the product.</li> <li>2- Restoring old bituminous coverings (with a specific primer, Acrybase S).</li> <li>3- Waterproofing foundations, supporting structures and wherever the application of a bituminous membrane is difficult.</li> <li>4- Waterproofing swimming pools or R.C. water reservoirs.</li> <li>5- Waterproofing irregular-shaped surfaces.</li> <li>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 water</li> <li>7- Waterproofing small parking lots with cement deck (Colorpark system)</li> </ol> <p>For perimeter or expansion joints and for connections between different support materials, the use of elastic reinforcement bands from the CasaBand or Acryfelt Band line, selected according to specific needs, is strongly recommended.</p> <p>Dermacem Fibro is also available in three colours on request (red (102D), green (201D) and grey (401D), with the pigment supplied, named Dermacem Color, 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 (both neutral and colored versions) is tested following the EN 1297 standard (method of artificial ageing by long</p> |





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|  | <p>term exposure to the combination of UV radiation, elevated temperature and water) resulting in accordance. Dermacem Fibro may also be produced as a coloured product for minimum production batches.</p> <p>Dermacem Fibro is resistant to aggressive pH (from 3 to 12) for accidental contact (consult the table for more information); can be used for the protection of concrete sewage water tanks, septic tanks both civil and industrial where the pH is less aggressive</p> <p>Dermacem Fibro can also be used as carbonation protective coat on concrete, external facades and cementitious surfaces.</p> |
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|------------|---------------------------------------------------------------|
| APPEARENCE | Component A: milky white liquid.<br>Component B: grey powder. |
|------------|---------------------------------------------------------------|

| CHARACTERISTICS OF THE LIQUID PRODUCT |               |           |                    |
|---------------------------------------|---------------|-----------|--------------------|
| CHARACTERISTICS                       | VALUE         | TOLERANCE | U.M.               |
| Specific weight                       | 1,51          | ± 0,05    | Kg/dm <sup>3</sup> |
| Dry residue                           | 76            | ± 1       | %                  |
| Mixing ratio A:B by weight            | A : B = 2 : 1 |           |                    |

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

| APPLICATION TO AIR-LESS |                       |                      |                 |
|-------------------------|-----------------------|----------------------|-----------------|
| DILUTION                |                       | 0%                   |                 |
| PUMP MODEL              | THOR 220V<br>(LARIUS) | NOZZLE TYPE AND SIZE | SFC 31-40       |
| GUN MODEL               | L91X                  | FILTER MANAGEMENT    | Without filters |
| GUN TUBE DIMENSIONS     | 3/8" x 15 Mt          | PUMP SET PRESSURE    | 220 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.





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| <b>APPLICATION METHOD</b>             | Start applying the waterproofing by laying the embossments and perimeter corners with the reinforcement bands. Pour component B (powder) into half part of 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; once obtained an homogeneous blend add the rest of the resin and mix again. 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. |
| <b>RECOMMENDED PRIMER</b>             | Acrybase S on bituminous decks.<br>Multifixo 100 on metal non-porous decks<br>Epobase FU 14 or Epocon 312 Tixo on decks subject to vapor pressure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>LAYING SURFACE</b>                 | 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.<br>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).                                                                                                                                                                                                                                 |
| <b>CONSUMPTION</b>                    | Approx. 1,8 – 2 Kg/sqm. In case the colored version of Dermacem Fibro is used such as final cot, are necessary 2 coats for a consumption of 1 Kg/sq.m.<br>If applied as carbonation protective the consumption is 04 – 0,5 Kg/sqm in 2 coats (dry film thickness 200 – 250 µm).                                                                                                                                                                                                                                                                                                                                                                   |
| <b>APPLICATION INSTRUCTIONS</b>       | Environmental and deck temperature limit during application: MIN 5 - MAX 40°.<br>Product may be applied on surfaces subject to water pooling. Do not apply the product in frost conditions, rain or snow.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>PDRYING AT 23° C AND 50 % U.R.</b> | Pot life: 60'<br>On surface: 30'<br>To touch: 1 h 30'<br>Interval between coatings: 5 – 6 h<br><br>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 (without reinforcement)                                            | 1,9        | ± 0,2     | N/mm <sup>2</sup> |
| Elongation at break (without reinforcement)                                      | 90         | ± 5       | %                 |
| Permeability to water vapour<br>(on membrane thickness of 700 micron)            | 16         | ± 3       | g/mq-24 h         |
| Flexibility at low temperatures                                                  | -20        | ± 2       | ° C               |
| Length of the synthetic fibres                                                   | 0,5        |           | mm                |
| Resistance to ageing according to EN 1297 (weathering test)                      | Accordant  |           |                   |
| Contact with drinkable water according to D.M. 186/06 and D.M. 06/04/2004 n. 174 | Accordant  |           |                   |
| Water vapor permeability (UNI 1062)                                              | V2= medium |           |                   |
| Water permeability (UNI 1062)                                                    | W3 = low   |           |                   |

| 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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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).



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| PACKAGING INSTRUCTIONS | COLOURS AVAILABLE<br>Standard grey, red (102D), green (201D),<br>grey (401D), light blue (316D) | PACKAGING<br>A + B = 10 – 20 Kg               |
| STORAGE INSTRUCTIONS   | STORAGE TEMPERATURE<br>MIN. 3° C – MAX 40° C                                                    | STABILITY IN THE ORIGINAL PACKAGE<br>6 months |
| SAFETY STANDARDS       | Please read the safety data sheet carefully before using this product.                          |                                               |

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| <br>1381                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <br>Zona Industriale C.I.A.F. – Castelferretti (AN) – 60015<br><a href="http://www.casaligroup.it">www.casaligroup.it</a> |
| 14<br>1381-CPR-490<br>EN 1504-2 : 2004<br>Products used to protect concrete decks<br><br><b>Dermacem Fibro</b><br>Fibre-reinforced two-component synthetic resin and cement based<br>waterproofing in water emulsion used to protect concrete against<br>penetration; humidity control and improved resistivity<br><br><b>Liquid water permeability</b> < 0.1 Kg/sq.m · h <sup>0.5</sup><br><b>Permeability to carbon dioxide</b> sd > 50 m<br><b>Adhesion to standard traction</b> ≥ 0.8 MPa<br><b>Permeability to water vapour</b> Class I<br><b>Crack bridging ability</b> Class A5<br><b>Freeze-thaw cycles with immersion in thawing salt</b> no alteration<br><b>Hazardous substances</b> See SDS<br><b>Class reaction to fire</b> Bfl – s1 |                                                                                                                                                                                                              |



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