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| PRODUCT         | <b>Acryroof Plus FR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MISSION         | Waterproofing liquid resistant to pooling with flame retardant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CHARACTERISTICS | <p>Acryroof Plus FR is a waterproofing liquid coating based on synthetic resin in water emulsion resistant to pooling and with flame retardant agents. The product is specifically designed for application on old bituminous sheaths and metal substrates (after the application of Acrybase S primer) on roof that needs a fire resistance certificate for the assembly of photovoltaic systems, ecc. The flame retardant, in case of a fire principle, avoid the propagation of the flames also in windy conditions and protect the bituminous mat underneath, making sure that no other damages can inflict the structure.</p> <p>The product is been test according the EN 13501 – 5 (fire classification of construction products and building elements) obtaining a B<sub>roof-t2</sub> certification. The test was done on a bituminous membrane (flammable) Dermaflex 40160 4 mm thickness. Acryroof Plus FR can be also applied on cement, concrete, wood, old liquid membranes, ecc. remembering always to use the specific primer for the different surface. 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.</p> |
| APPEARENCE      | Viscous coloured liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**CHARACTERISTICS OF THE LIQUID PRODUCT**

| CHARACTERISTICS                                                        | VALUE | TOLERANCE | U.M.               |
|------------------------------------------------------------------------|-------|-----------|--------------------|
| Specific Weight:                                                       | 1,34  | ± 0,1     | Kg/dm <sup>3</sup> |
| Dry mass residue                                                       | 62,4  | ± 2       | %                  |
| Brookfield viscosity<br>(with Brookfield viscometer rotor 5, speed 20) | 13000 | ± 2000    | Mpa.s              |

**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 | <p>The bituminous membrane must be clean, free from oils, grease and in case of slated membranes all the chips not attached must be removed. In any case we recommend to apply Acrybase S (synthetic primer solvent based) before the application of Acryroof Plus FR. In case of different surface please contact the Technical Office of Casali S.p.A..</p> <p>All the reparation operation must be done before laying Acryroof Plus FR.</p> |
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|             |                                                                                                                                                           |
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| CONSUMPTION | The total recommended coverage is 1,3 kg/sqm (2 coats). If the product contains reinforcement, coverage is approximately 1,8-2 kg/sqm in 2 or more coats. |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|





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| <b>APPLICATION INSTRUCTIONS</b> | Application temperature range: MIN 8°C – MAX 40°C<br>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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| <b>DRYING AT 23° C AND 50 % U.R.</b> | On surface: 30'<br>To touch: 1 h<br>Interval between coatings: 5 h<br>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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| <b>CHARACTERISTICS OF THE DRY PRODUCT</b>   |                                    |                  |             |
|---------------------------------------------|------------------------------------|------------------|-------------|
| <b>CHARACTERISTICS</b>                      | <b>VALUE</b>                       | <b>TOLERANCE</b> | <b>U.M.</b> |
| Breaking load                               | 1,5                                | ± 0,2            | N/sq.mm     |
| Elongation at break                         | 300                                | ± 60             | %           |
| Flexibility at low temperatures             | -12                                | ± 1              | ° C         |
| SRI according to ASTM E1980 (white version) | 103,3                              |                  |             |
| Reaction fire class according EN 13501 – 1  | B <sub>fi</sub> – s <sub>1</sub>   |                  |             |
| Reaction fire class according EN 13501 – 5  | B <sub>roof</sub> – t <sub>2</sub> |                  |             |

|                               |                                                                        |                                                       |
|-------------------------------|------------------------------------------------------------------------|-------------------------------------------------------|
| <b>PACKAGING INSTRUCTIONS</b> | <b>COLOURS AVAILABLE</b><br>Grey, red, white, green                    | <b>PACKAGING</b><br>20 Kg                             |
| <b>STORAGE INSTRUCTIONS</b>   | <b>STORAGE TEMPERATURE</b><br>MIN. 3°C - MAX 40°C                      | <b>STABILITY IN THE ORIGINAL PACKAGE</b><br>12 months |
| <b>SAFETY STANDARDS</b>       | Please read the safety data sheet carefully before using this product. |                                                       |

