

## REFLEXIL ELASTOFLUID ELASTOMERIC LIQUID SHEATH

### TECHNICAL DATA SHEET

- Description:** Pigmented elastomeric liquid membrane reinforced with fibers for decorative and waterproofing purposes.
- Advantages:**
- Creates a highly reflective shield against UV rays, granting not only an excellent thermal insulation, but also a considerable energy saving .
  - Reduces the energy consumption from summer air-conditioning.
  - Improves the efficiency of photovoltaic panels, thanks to its solar reflectance and thermal emissivity values.
  - Reduces the carbonation phenomena on concrete surfaces.
  - Waterproofs and protects from atmospheric agents.
  - Cold applied, avoiding fire risks, directly on old bituminous membranes without dismantle it.
  - Perfect adherence, suitable to complex construction details and resistant to cracks.
  - Low maintenance, additional protection is not needed.
  - Resistance to walking.
  - Odourless and non-flammable product.
  - Non-toxic, solvent free.
- Composition:** Water solution containing modified elastomeric acrylic co-polymers, inert fillers, synthetic fibers, colored pigments, suspending and thickening agents, additives.
- Fields of use:** Covers and waterproofs:
- Walkways, balconies, terraces, old bituminous surfaces, bathrooms and saunas floors, tiles, sheet coverings and grounded walls.
  - Concrete tanks for non-drinking water or other not acid non aggressive liquids.
  - Concrete balconies, where the bituminous membrane solution is not applicable.
  - Fibre-cement, wood and metal surfaces.
- Surface preparation:**
- Make sure that the surface is free from detached parts , loose debris or non-adherent parts, coatings, rust, powder, disarming oils and carefully clean the surfaces that must be sound and dry. Before application fastness and efficiency of water run-off points must be checked.
  - The product applied should be protected from rain, dew, fog until complete drying, which extend the drying time.
  - Apply between 0°C and +35°C; avoid extreme hot or cold conditions during the application and drying time .

## REFLEXIL ELASTOFLUID

### ELASTOMERIC LIQUID SHEATH

**Application:**

- It can be applied by broom, roller, airless spray or brush.
- Mix before use.
- The first layer can be diluted up to 10% with water.
- The second layer should be applied when the first one is dried, perpendicular to the first one, and with less or no dilution.
- An appropriate nonwoven polyester reinforcement drowned into the first still fresh coat can be applied to improve the mechanical features of the waterproofing layer.
- After use, clean the tools with water. If the product had dried on them, remove it with warm water or white spirit.

**Coverage:**

- The consumption depends on the treated surface and on desired thickness of the layer, usually it is between 1,4 and 2 kg/m<sup>2</sup>.


**Warning:**

- The product is ready for use, do not use mixers, mix manually if necessary.
- We recommend to apply the product at room temperature not below +5°C, avoiding extreme weather conditions such as heat and cold or simply fog, rain and frost.
- We recommend not to apply the product on just laid bituminous surfaces, which could still release hydrocarbons and cause adherence problems of the film on the liquid membrane.
- Do not exceed the suggested average consumption for each coat. In the contrary case the water evaporation would stop inside the liquid bituminous product remaining trapped under the dried film.
- If the surface is made of insulating panels, the time before renovation will be shorter.
- Temperatures over 35° C may compromise the product workability because of too fast drying of the film surface.
- Do not use on surfaces subject to rising or strong water pressure.

For further information please ask for safety datasheet.

**Packaging:** Metal or plastic pails of 5, 10, 20 and 25 kg.  
 Keep the product away from frost., the product must be applied or stocked at a temperature above +5° C. Once the product gets frozen, it is not recoverable anymore.

**Technical information:**

SOLAR REFLECTANCE, THERMAL EMISSIVITY and "Solar Reflectance Index"			
Test reports by the Enzo Ferrari / EELab Engineering Dept. – Univ. of Modena and Reggio Emilia			
Solar Reflectance Index (SRI) ASTM E1980	Thermal emissivity (E) ASTM C1371	Solar reflectance (R) ASTM E903	Surface temperature
108 %	91 %	85 %	41,7 °C

**REFLEXIL ELASTOFLUID**  
ELASTOMERIC LIQUID SHEATH

Leed CERTIFICATION –LEED NC 2009 protocol - Italy											
SS Credito 7.2 Heat-Island Effect: Roofing	Utilizzare materiali di copertura che abbiano un Indice di Riflessione Solare SRI (Solar Reflectance Index) maggiore o uguale al valore riportato nella tabella sottostante per un minimo del 75% della superficie del tetto.										
	<table border="1"> <thead> <tr> <th>Roofing type</th> <th>Slope</th> <th>SRI</th> </tr> </thead> <tbody> <tr> <td>Low slopes</td> <td>≤2:12(9,5°-16,7%)</td> <td>78</td> </tr> <tr> <td>Steep slopes</td> <td>&gt;2:12(9,5°-16,7%)</td> <td>29</td> </tr> </tbody> </table>	Roofing type	Slope	SRI	Low slopes	≤2:12(9,5°-16,7%)	78	Steep slopes	>2:12(9,5°-16,7%)	29	
	Roofing type	Slope	SRI								
Low slopes	≤2:12(9,5°-16,7%)	78									
Steep slopes	>2:12(9,5°-16,7%)	29									
Surfaces painted with REFLEXIL ELASTOFLUID have a Solar Index Reflectance SRI > 78 %.											

MAIN CHARACTERISTICS		
Aspect		Thixotropic fluid paste
Color		White
Shelf life in closed original container		12 months
Solid content at 130 °C	EN ISO 3251	63% - 71%
Viscosity Brookfield at 20°C (nozzle 5, 10 RPM)	EN ISO 3219	24.000 cP ± 5.000
Specific weight at 20 °C	EN ISO 2811-1	1,50 kg/l ± 0,05
Drying time		4 hours ca. *
Complete desiccation		24 hours *
PERFORMANCES (UNI EN 1504-2:2005 – C COVERINGS – PI MC IR)		
Permeability to CO2	EN 1062-6	S <sub>D</sub> > 50 m
Permeability to water vapour	EN ISO 7783	Class I - S <sub>D</sub> < 5 m
Capillary absorption and water permeability	EN 1062-3	w < 0,1 Kg/m <sup>2</sup> ·h <sup>0,5</sup>
Adherence strength against direct traction	EN 1542	≥ 1 N/mm <sup>2</sup>

\* Measures have been recorded with a temperature of 23°C and a moisture of 50%. Declared data can change depending on the thickness of applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, absorption capacity of surfaces.

The product is marketed by Coibent Plastic srl on behalf of Chemistar Ltd against a written agreement between the parties. The information data and suggestions herein contained represent the best experience of Chemistar Ltd regarding product's properties and uses. However, no liability is assumed by Chemistar Ltd and by Coibent Plastic srl for the obtained results, considering the different conditions of use and the intervention of factors and variables not depending on the company (such as supports, operating conditions, inobservance of instructions...) Before application, make sure the product is suitable for the intended purpose and be ready to bear all use-related liabilities.