

GUMVERN WHITE FIBERS

High SRI white elastomeric liquid sheath

- Description:** White fibre-reinforced liquid waterproofing membrane, formulated with selected synthetic resins in aqueous dispersion and special additives which give high solar reflectance properties.
- Advantages:**
- Ensures excellent thermal insulation by creating a highly reflecting barrier against UV rays, reducing both the temperature on the external surface and improving thermal well-being inside living spaces.
 - Reduces the energy consumption of air conditioning in summer.
 - Improves the yield of electricity generation plants made with photovoltaic panels, thanks to its solar reflectance and thermal emissivity values.
 - Reduces concrete carbonation phenomena.
 - Long-lasting waterproofing resistant to weathering.
 - Resistant to standing water.
 - Cold laying, directly on the old bituminous membranes without the need to remove them (eliminates the risk of fire during installation).
 - Perfect adherence, suitable for complex construction details and resistant to micro-cracking.
 - Good resistance to foot traffic and mechanical stress.
 - Low maintenance, does not require additional protection.
 - Odourless, non-flammable product.
 - Non-toxic product, free from solvents.
- Applications:** To cover and waterproof:
- Flat roofs, balconies, terraces, bathrooms, showers, saunas, bituminous surfaces, tiles, sheet metal roofs and retaining walls.
 - Concrete tanks for containing non-drinking water and other non-acidic and/or particularly aggressive liquids.
 - Concrete balconies, before gluing the stoneware or clinker tiles where the solution with polymer-bitumen membranes is not feasible.
 - Fibre-cement, wood, polycarbonate, and metallic surfaces.
- Surface preparation:**
- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products. The solidity and efficiency of the water run-off points must be checked before application.
 - The waterproofing must be protected from rain, dew, and fog until completely dry. Humidity and low temperatures lengthen drying time.
- Application:**
- Apply Gumvern White Fibers by brush, broom, roller or spray.
 - Mix well before use.
 - As a first coat, apply Gumvern White Fibers diluted up to 10% with water.
 - The second coat, applied crosswise to the first, has to be applied as is or with a lower dilution on the film of the dry first coat.
 - It is possible to interpose non-woven fabric between the two coats to increase its performance and resistance to mechanical traction.
 - After use, wash tools with water and, if the product has dried, it is advisable to remove it with hot water or with the common synthetic thinners.

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Consumption: The application must include at least two coats to give a uniform colour to the waterproofing layer, using a total of 1.4-2.0 kg/m² of Gumvern White Fibers depending on the nature and degree of porosity of the surface and the desired thickness. Product consumption increases if non-woven fabric is used between the two coats depending on the nature of the latter.

- Warnings:**
- The product is ready for use, do not use mechanical mixers; if necessary, mix manually.
 - Apply the product at ambient temperatures between +5 °C and +35 °C and when there are no weather conditions such as fog, rain, or frost, and in any case avoid extreme situations of cold and heat, even during drying.
 - Avoid using in the presence of damp backpressure phenomena. When applying on new cement substrates, wait for its curing.
 - Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is $\leq 5\%$ by weight (for screeds with a density of 2000 kg/m³).
 - Apply the product on surfaces not subject to standing water.
 - We advise against applying the product on newly applied bituminous surfaces, which could still release hydrocarbons and cause adhesion problems of the film on the sheath.
 - If the roof includes insulating packages, a shorter restore is advisable.
 - When applying on polymer-bitumen membranes or bituminous surfaces, check in advance the adhesion of Gumvern White Fibers before applying.
 - It can be stepped on in case of occasional maintenance.
 - Protect from frost, do not expose the package to temperatures below +5 °C; once frozen, the product can no longer be recovered.
- For further information, request the safety data sheet.

Packaging: 1, 5, 10, 20 or 25 kg metal or plastic pails; 200 kg metal drums.

Other versions: Gumvern White Fibers Fire Resistant is available; it is a version of the product with the addition of particular additives, which give self-extinguishing properties. Gumvern White Fibers Fire Resistant is certified resistant to external fire, in class B_{Roof}(t2) according to UNI EN 13501-5:2016 (specifications present in the product technical sheet).



Technical data:

MAIN CHARACTERISTICS		
Appearance		Fluid thixotropic paste
Colour		White
Shelf life in closed original packaging		24 months
Solid content (m/m at 130 °C)	EN ISO 3251	(63-71)%
Brookfield viscosity (at 20 °C, spindle 5; 10 rpm)	EN ISO 3219	(24,000±5,000)cP
Density (at 20 °C)	EN ISO 2811-1	(1.45-1.55) kg/L
Dust-free time		4 hours*
Complete drying time		At least 24 hours*
Operating temperature		-20°C - +90°C

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Specifications for COOL ROOFS: Thanks to its high SRI value, Gumvern White Fibers allows obtaining LEED credits for the reduction of the heat island effect and ensures an increase in the energy efficiency of the photovoltaic panels.

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)											
Permeability to CO ₂	EN 1062-6	S _D > 50 m									
Water vapour permeability	EN ISO 7783	Class I (S _D < 5 m)									
Liquid water permeability	EN 1062-3	w < 0.1 kg/m ² ·h ^{0.5}									
Tensile bond strength	EN 1542	≥ 1 N/mm ²									
SOLAR REFLECTANCE, THERMAL EMITTANCE, SOLAR REFLECTANCE INDEX											
Solar Reflectance Index (SRI) ASTM E1980-11	Thermal emittance (E) ASTM C1371-15	Solar reflectance (R) ASTM E903-12	Surface temperature (T _s)								
108	91	85	41.7 °C								
LEED CERTIFICATION REQUIREMENTS v 4.1 BD+C											
SS HEAT ISLAND EFFECT CREDIT: ROOFS	Use roofing materials that have a Solar Reflectance Index (SRI) greater than or equal to the value shown in the table below for a minimum of 75% of the roof area.										
	<table border="1"> <thead> <tr> <th>Type of roof</th> <th>Gradient</th> <th>SRI</th> </tr> </thead> <tbody> <tr> <td>Low slope roofs</td> <td>≤15%</td> <td>82</td> </tr> <tr> <td>Highly sloping roofs</td> <td>>15%</td> <td>39</td> </tr> </tbody> </table>	Type of roof	Gradient	SRI	Low slope roofs	≤15%	82	Highly sloping roofs	>15%	39	Membranes painted with Gumvern White Fibers have an SRI > 82.
Type of roof	Gradient	SRI									
Low slope roofs	≤15%	82									
Highly sloping roofs	>15%	39									

* Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorptency of surfaces.



The advice and technical information provided represent HA ITALIA S.p.A.'s best knowledge of product properties and use. Considering the different situations of use of the products and factors beyond our control (media, working conditions, failure to comply with instructions), we cannot be held responsible for the results obtained. Before using the product, anyone who intends to make use of it is required to determine whether it is suitable for the intended use and assumes full liability for whatever may arise from its use.



HA Italia disclaims any and all liability arising from failure to observe the warnings mentioned in this data sheet and failure to comply with the requirements set out in the safety data sheet.

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