

# POLITES 140

Fiberglass mesh

Fiberglass mesh to be used as reinforcement for indoor and outdoor plaster applications, to prevent cracks formation over inconsistent supports or caused by possible settling of underlying supports. *Polites 140* is designed to improve the adhesion of plasters on several materials.

## BENEFITS

- Easy and quick to apply.
- High resistance to longitudinal and transversal traction.
- It prevents the formation of cracks.
- Alkali resistant.
- Multipurpose.

## YIELD

1.10 m<sup>2</sup>/m<sup>2</sup> (11.84 ft<sup>2</sup>/ft<sup>2</sup>).

It is recommended to consider an overlapping of at least 10-15 cm (3.94 – 5.90 in).

## COLOUR

Orange.

## PACKAGING

### Roll:

- thickness 0,6 mm (0.24 in).
- dimensions 1 x 50 m (3.28 x 164.04 ft).
- area 50 m<sup>2</sup> (538.17 ft<sup>2</sup>).
- weight 6 kg (13.23 lb).

## APPLICATION FIELDS

Armour designed to reinforce damaged or painted plasters. It gives the system an adequate capacity to withstand shocks, as well as to counteract the tensions due to thermal changes and shrinkage phenomena, preventing the formation of cracks or fissures in the façade.

## STORAGE

Store *Polites 140* in well-ventilated areas, adequately protected from the sun, water, frost and kept at temperatures between +5 °C (+41 °F) and

+35 °C (+95 °F).

## PREPARATION OF THE SUPPORT

As for the preparation methods of the substrate, it is necessary to follow the instructions given in the technical data sheet of the product with which the *Polites 140* mesh is used in combination with.

## APPLICATION

1. Apply a first layer of the plaster of choice (refer to the technical data sheet of the chosen product).
2. Apply *Polites 140* mesh on the still fresh product in order to maintain an overlap of 10-15 cm (3.94 – 5.90 in) on the joints. *Polites 140* must not show curls or bubbles and must always be used in the presence of micro cracks or in particularly stressed areas.
3. Wet the plaster before applying the second layer. On particularly unstable substrates, it is advisable to fix the plaster holder mesh with dowels or nail.
4. Once the underlying layer has hardened, apply a second layer of plaster taking care to perfectly soak the mesh into the still fresh product. Ensure not to leave holes on the surface.

The mesh width of *Polites 140* perfectly combines with the grain size of the Diathonite plasters.

## SUGGESTIONS

- Do not apply at environmental temperature or at support temperature lower than +5 °C (+41 °F) and +35 °C (+95 °F).
- During summer season apply the product in the cooler hours of the day, away from sun.
- Do not apply with imminent threat of rain or frost, in conditions of strong fog or with relative humidity higher than 70%.

# POLITES 140

Fiberglass mesh

Please, follow the directions on the technical data sheet of the product with which the *Polites 140* mesh is used in combination with.

## SAFETY

During handling, use personal protective equipment and follow the instructions on the safety data sheet relating to the product.

\* These data, even if carried out according to standard test methods, are indicative and may undergo changes as the specific site conditions vary.

Technical data *		
Main features		Units
Yield	1,10 10-15 cm of overlapping	m <sup>2</sup> /m <sup>2</sup>
	11.84 3.94 – 5.90 inches of overlapping	ft <sup>2</sup> /ft <sup>2</sup>
Aspect	mesh	-
Color	orange	-
Composition	fiberglass	-
Stitch dimension (UNI 9311/2)	11 x 11	mm
	0.43 x 0.43	in
Fabric weight (UNI 9311/4)	120 ± 5%	g/m <sup>2</sup>
	0.025 ± 5%	lb/ft <sup>2</sup>
Average thickness fabric (UNI 9311/3)	0.6 ± 5%	mm
	0.024 ± 5%	in
Application temperature	+5 /+35	°C
	+41 /+95	°F
Drying time (T=+23°C; U.R. 50%)	not needed	-
Packaging	1 x 50 m roll	m
	3.28 x 164.04 ft roll	ft

Final performances		Units	Norm
Elongation at break	3,5 %	-	UNI 9311/5
Tensile strength			
Warp	> 1466 ± 5%	N / 5 cm	UNI 9311/5
Weft	> 1318 ± 5%	N / 5 cm	
Loss through calcination	16 %	-	UNI 8532
Construction			
Warp	185 ± 5%	N ° of wires	UNI 9311/1
Weft	10 ± 5%	N ° of wires	



ARMOURS – fiberglass

## Ecological Building Systems

For stockist information and full technical support for your project, please contact Ecological Building Systems or visit [www.EcologicalBuildingSystems.com](http://www.EcologicalBuildingSystems.com)

