POLITES 80

Fiberglass armour

Fiberglass mesh to be used as reinforcement for skim coatings and liquid waterproofing, it prevents and contrasts the formation of lesions and micro cracks, distributing the tensions caused by shrinkage phenomena. Reinforcement suitable in combination with the application of skim coatings on plasters for thermal and acoustic insulation of *Diathonite* line.

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^2/m^2 (11.84 ft^2/ft^2).
It is recommended to consider an overlapping of at least 10-15 cm (3.94 – 5.90 in).

COLORE

Orange.

PACKAGING

Roll:

- thickness 0,33 mm (0.12 in).
- Dimensions 1 x 50 m (3.28 x 164.04 ft).
- area 50 m^2 (538.17 ft^2).
- weight 4 kg (6.62 lb).

Pallet

- 48 rolls = 2400 m^2 (25833 ft^2) and 192.00 kg (423 lb)

APPLICATION FIELDS

Armour used to make reinforced skim coats. It gives to the system an adequate capacity to withstand shocks, as well as to contrast the tensions due to thermal changes and shrinkage phenomena, preventing the formation of cracks or fissures in the facade. *Polites 80* mesh is suitable in combination with smoothing compounds on plasters for thermal and acoustic insulation of *Diathonite* line.

STORAGE

Store *Polites 80* 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 80* 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 80* 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 80* 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.

DIASEN GREEN BUILDING FUTURE

DIASEN SRL UNIPERSONALE - Società Benefit
Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN) | Italia | +39 0732 9718
diasen@diasen.com | www.diasen.com | P.IVA 01553210426 | R.E.A. Ancona n. 150933
Reg. Imp. Ancona 01553210426 | Cap. Soc. €400.000,00 i.v.

The instructions and recommendations provided, while representing our best experience and knowledge, are to be considered as indicative and must be confirmed through thorough practical application. Diasen is not aware of the specific conditions of the application process nor the decisive characteristics of the substrate. Therefore, before using the product, the applicator must in any case carry out preliminary tests to verify its complete suitability for the intended use and, in any case, assumes full responsibility for its use. In case of doubts or uncertainties, please contact the company's technical department before starting the work. However, this support is to be considered merely as an aid for the applicator, who must always ensure they possess the necessary skills and experience to apply the product correctly and to identify the most appropriate solutions. Always refer to the latest updated version of the technical data sheet, available at www.diasen.com, which cancels and replaces any previous version.

POLITES 80

Fiberglass armour

The mesh width of *Polites 80* 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%.

Please, follow the directions on the technical data sheet of the product with which the *Polites 80* 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		Unità di misura
Yield	1,10 10-15 cm of overlapping	m^2/m^2
	11.84 3.94 – 5.90 inches of overlapping	ft^2/ft^2
Aspect	mesh	-
Color	orange	-
Composition	fiberglass	-
Stitch dimension (UNI 9311/2)	4.0 x 4.2	mm
	1.65 x 1.57	in
Fabric weight (UNI 9311/4)	80 ± 5%	g/m^2
	0.015 ± 5%	lb/ft^2
Average thickness fabric (UNI 9311/3)	0.30 ± 5%	mm
	0.016 ± 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

DIASEN SRL UNIPERSONALE - Società Benefit
Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN) | Italia | +39 0732 9718
diasen@diasen.com | www.diasen.com | P.IVA 01553210426 | R.E.A. Ancona n. 150933
Reg. Imp. Ancona 01553210426 | Cap. Soc. €400.000,00 i.v.

The instructions and recommendations provided, while representing our best experience and knowledge, are to be considered as indicative and must be confirmed through thorough practical application. Diasen is not aware of the specific conditions of the application process nor the decisive characteristics of the substrate. Therefore, before using the product, the applicator must in any case carry out preliminary tests to verify its complete suitability for the intended use and, in any case, assumes full responsibility for its use. In case of doubts or uncertainties, please contact the company's technical department before starting the work. However, this support is to be considered merely as an aid for the applicator, who must always ensure they possess the necessary skills and experience to apply the product correctly and to identify the most appropriate solutions. Always refer to the latest updated version of the technical data sheet, available at www.diasen.com, which cancels and replaces any previous version.

POLITES 80

Fiberglass armour

Final performances		Units	Norm
Elongation at break	3,5 ± 5 %	-	UNI 9311/5
Tensile strength			
Warp	> 700 ± 5%	N / 5 cm	UNI 9311/5
Weft	> 700 ± 5%	N / 5 cm	
Loss through calcination	16 ± 5%	-	UNI 8532
Construction			
Warp	480	N ° of wires	UNI 9311/1
Weft	180	N ° of wires	

DIASEN SRL UNIPERSONALE - Società Benefit
Zona Industriale Berbentina 5 - 60041 Sassoferrato (AN) | Italia | +39 0732 9718
diasen@diasen.com | www.diasen.com | P.IVA 01553210426 | R.E.A. Ancona n. 150933
Reg. Imp. Ancona 01553210426 | Cap. Soc. €400.000,00 i.v.

The instructions and recommendations provided, while representing our best experience and knowledge, are to be considered as indicative and must be confirmed through thorough practical application. Diasen is not aware of the specific conditions of the application process nor the decisive characteristics of the substrate. Therefore, before using the product, the applicator must in any case carry out preliminary tests to verify its complete suitability for the intended use and, in any case, assumes full responsibility for its use. In case of doubts or uncertainties, please contact the company's technical department before starting the work. However, this support is to be considered merely as an aid for the applicator, who must always ensure they possess the necessary skills and experience to apply the product correctly and to identify the most appropriate solutions. Always refer to the latest updated version of the technical data sheet, available at www.diasen.com, which cancels and replaces any previous version.

For over 20 years, Ecological Building Systems has been at the forefront of environmental and sustainable building products supplying a range of innovative airtightness solutions and natural insulations backed up with expert technical support.

As product suppliers in the UK and Ireland, we're happy to assist you with your projects and have expert technical and sales advice on hand.

Call us

Great Britain +44 (0)1228 711511

Ireland +353 46 9432104

Email us

info@ecologicalbuildingsystems.com

Find us

Great Britain Ecological Building Systems UK Ltd.,
Cardewlees, Carlisle, Cumbria, CA5 6LF,
United Kingdom

Ireland Ecological Building Systems Ltd.,
Main Street, Athboy. Co. Meath, C15 Y678,
Republic of Ireland

ecological BUILDING SYSTEMS

Discover our solutions online at

ecologicalbuildingsystems.com