CF W2

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Mortars

TWO-COMPONENT SOLVENT FREE EPOXY PRIMER FOR CONSOLIDATING OF CONCRETE STRUCTURES.

PRODUCT DESCRIPTION

CF W2 is two-component epoxy resin based products with selected fine graded aggregates and special additives. After mixing component A with hardener component B, they become a thixotropic paste, easy to apply both on vertical surfaces and on soffits. CF W2 harden without shrinkage, becoming extremely tacky and mechanically strong. CF W2 respond to the principles defined in EN 1504-9 “Products and systems for protecting and repairing concrete structure and the minimum requirements for EN 1504-4 “Structural bonding”.

FIELD OF APPLICATION

Leveling concrete, reinforced concrete or masonry surfaces before applying MapeWrap fabrics

LIMITATIONS

· Not be used on wet surfaces.
· Not be used on dirty or crumbling surfaces.

APPLICATION PROCEDURE

A) Preparation of the support
Treat the substrate with Epo Primer ST before applying CF W2.

B) Preparing the product
The two parts of CF W2 must be mixed together. Pour part B grey into part A White and mix at a Fast speed with a drill fixed with an agitator until a uniform paste is obtained (a uniform grey). The product is already pre-dosed. To avoid incomplete hardening of CF W2, do not use partial quantities. When partial quantities are necessary, use a precision electronic scale. The mixing ratio is:
· 1 parts by weight of component A;
· 1 part by weight of component B.

C) Applying the product
CF W2 can be applied on concrete, stone, brick or metal with a flat trowel after the substrate has been primed with Epo Primer ST. In order to obtain good leveling, it is recommended to let the product penetrate well into particularly uneven areas. Apply, with a notched trowel, approximately a 1 mm layer of CF W2, depending on the temperature, over the still fresh Epo Primer ST. Use a flat trowel to completely level even the most uneven parts of the surface. Use the same product to fill and round the corners in order to create a

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profile with a bending radius not less than 2 cm. CF W2 must be applied within their pot-life, therefore timing is vital in order to use the whole pack within the given time. The CF W 200 fabrics must be applied over the still fresh CF W2.

COVERAGE / CONSUMPTION

Approximately 1.55-1.65 kg/m² per mm of thickness.

PACKAGING

CF W2 is supplied in 5 and 15Kg plastic bucket A+B.

SHELF LIFE

Original sealed bags of this product are guaranteed to be of first quality for 24 months if stored off of the ground in a dry area. High humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

CF W2 component A is irritant for the skin and the eyes, both components A and B may cause sensitization in those subjects sensitive to such substances. CF W2 component B is corrosive and may cause burns. The product contains low molecular weight epoxy resins that may cause sensitization if cross-contamination occurs with other epoxy compounds. When applying the product, we recommend the use of protective gloves and goggles and to take the usual precautions for handling chemical products. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. CF W2 component A is also hazardous for aquatic life. Do not dispose of this product in the environment. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet. PRODUCT ONLY FOR PROFESSIONAL USE.

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TECHNICAL DATA

Product identity		
	Component A	Component B
Consistency	Thick paste	Thick paste
Color	White	Beige
Density (kg/m²)	1.6	1.6
Viscosity (mPa.s)	100	100
Brookfield viscosity (mPa·s)	800,000 (# F - 5 rpm)	650,000 (# F - 5 rpm)
Application data (at +23°C and 50% R.H.)		
Mixing ratio	1	1
Brookfield viscosity of mix (mPa·s):	1,000,000 (# F - 2.5 rpm)	
Density of the mix (kg/Lt)	1.45	
Pot life of mix	30 minutes	
Application temperature range	from +10°C to +30°C	
Open time (according to EN 1346)	45 minutes	
Adjustment time	1-2 hours	
Complete hardening	after 3 days	
Final performances		
Linear shrinkage (%)	0	
Compressive modulus of elasticity (N/mm²)	6.000	
Coefficient of thermal expansion	43 x $10^{-6}K^{-1}$	
Glass transition temperature	> +40°C	
Reaction to fire	B-s1, d0	
Bond strength on damp concrete according to EN 12636 (N/mm²)	5.2	
Concrete-steel bond strength (N/mm²)	4.8	
Concrete-Carboplate bond strength (N/mm²)	5.5	

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