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FibArm Resin WS+

Two-component epoxy system for impregnation and bonding on wet surfaces.

Use for structural reinforcement in construction



Application	<ul style="list-style-type: none"> • Structural adhesive with high wettability, suitable for bonding tapes and fabrics of carbon, glass, aramid, basalt fiber, pultruded and high resistance steel plates • Suitable for application on vertical or overhead • Limitation for fabrics and tapes by areal weight – up to 300 g/m² • Wet surfaces
Processing	Mechanical mixing at low speed or manual mixing until complete homogenization of the two components. Application by roller or brush. The treatment with a primer is not necessary, but the surfaces must be properly prepared by removing all the unstable parts and appropriately regularized.
Description	Two-component epoxy filled system, medium viscosity. Easy to use 2:1 ratio by weight and by volume. After mixing the two components gives a thixotropic system with excellent vertical hold. The coloration in contrast allows to easily highlight the correct mixing. The system cure even at low temperatures (still above 10°C) and presents no surface oiliness.
EN 1504-4	FibArm Resin WS+ meets the performance requirements of legislation EN 1504-4 for bonding and structural reinforcement.
Features	<ul style="list-style-type: none"> • Wet surfaces application • composition with improved mechanical characteristics • Easy application and mixing - the ratio of 2:1 by volume and weight • Designed specifically for the FibArm system • High mechanical properties • High adhesion to different surfaces: concrete, masonry, metal, wood, stone • Convenient for impregnating tapes and fabrics manually • Does not require a primer

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	<ul style="list-style-type: none"> Solvent free 		
System specification		Resin	Hardener
	Color	White	Grey
	Viscosity (25°C), mPas	10 000-110 000	25 000-85 000
	Density (25°C), g/ml	1,57-1,61	1,59-1,63
	Mixing ratio (Wt/Wt)	2	1
	Pot life (100 ml; 40mm), min	40-50	
	Properties determined on standard specimens cured 24h at room temperature + 15 h 60°C	System colour	Light grey
System density (25°C), g/ml (ASTM D792)		1,58-1,62	
Flexural strength (25°C), MPa (ASTM D790)		70-80	
Flexural Modulus of Elasticity (25°C), MPa (ASTM D790)		6500-7500	
Shear strength (snatch, plate-plate steel, 25°C), MPa (EN 12188)		>14	
Glass transition temperature (ASTM D3418)		80-85°C	
Sales Package	System is sold in packs Component A: 10 kg Component B: 5 kg		
Instructions	Add the appropriate amount of hardener to the resin and mix thoroughly by hand or machine in low speed, using waterproof gloves and goggles. The product reacts more rapidly in mass, therefore it is recommended after mixing of the sales packages to transfer the product into a wide basin to increase, if necessary, the working time. Apply with roller or spatula.		
Requirements for tapes and fabrics	Apply with a roller or trowel on the surface to be strengthened, properly prepared. Applying the reinforcement tape or fabric, taking care to arrange the fibers taut and wrinkle free, protect hands with waterproof gloves. Roll the surface with spiked rollers ensuring the proper impregnation. Install a second resin layer to complete saturation and incorporation of the reinforcement. Repeat several times stratification as defined in the project. Do not exceed recommended maximum thickness provided for this product. Any overlap must be carried out on partially hardened system within the times reported in this TDS to ensure chemical bond between the two layers. Where it's necessary to adhere to the cured reinforcement system with plaster or other building systems, add dusting granulated quartz (0,7-1,2 mm) to the system surface when is not completely hardened.		
Precautions	Consult the safety precaution and comply with the provisions relating to industrial hygiene and waste disposal		