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FibArm Resin 530+

Two-component epoxy system for impregnation and bonding.

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 • Suitable for application on vertical or overhead • Use with tapes and fabrics with high areal weight
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. Do not use on wet surfaces.
Description	Two-component epoxy unfilled system, low viscosity Recommended to use saturator for impregnating of the tapes and fabrics with high areal weight.
EN 1504-4	FibArm Resin 530+ meets the performance requirements of legislation EN 1504-4 for bonding and structural reinforcement.
Features	<ul style="list-style-type: none"> • Composition with improved mechanical characteristics • 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 with high areal weight manually • Does not require a primer • Solvent free

	Resin	Hardener	
System specification	Colour	Light	
	Viscosity (25°C), cps (LVT#4 60rpm)	2300 -3200 (LVT#4 60rpm)	10-40 (LVT#1 60rpm)
	Density (25°C), g/ml	1,10-1,20	1,00-1,10
	Mixing ratio A/B (Wt/Wt)	100	30
	Maximum applicable thickness (EN 1799), mm	3	
Open time of bonding (EN 12189), min	80-150		
Working time (6 kg of mixed system on 4cm of thickness) EN ISO 9514, min	+10°C: >100 +20°C: >50 +30°C: >30		
Suggested application temperature	10-35°C		
Curing time, days	+10°C: 15 +20°C: 7 +30°C: 5		
Waiting time for over-application with chemical adhesion, hrs	+10°C: 12-24* +20°C: 6-18* +30°C: 3-12* *Working times are influenced by site conditions		
Properties determined on standard specimens cured 24 hours at room temperature + post curing at 80°C for 8 hrs	System colour	Light yellow	
	Tensile strength, MPa (ASTM D638/ISO 527)	72-87	
	Tensile Modulus, MPa (ASTM D638/ISO 527)	2900-3500	
	Shear strength (snatch, plate-plate steel, 25°C), MPa (EN 12188)	>10	
	Glass transition temperature (ASTM D3418)	73-88°C	
	Maximum using temperature in continuous	45-50 °C	
Sales Package	System is sold in packs Component A: 15 kg Component B: 4,5 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 and not wet. For fabrics impregnation is recommended to use saturator. 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