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**FibArm Resin HT+**

**Two-component epoxy system for impregnation and bonding with high thermal resistance.**

**Use for structural reinforcement in construction**



<b>Application</b>	<ul style="list-style-type: none"> <li>• Structural adhesive with high wettability, suitable for bonding tapes and fabrics of carbon, glass, aramid, basalt fiber</li> <li>• Suitable for application on vertical or overhead</li> <li>• Heated surfaces up to 110°C</li> </ul>
<b>Processing</b>	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. Apply on dry surfaces.
<b>Description</b>	Two-component epoxy unfilled system, low viscosity with high elastic modulus. Long pot life. The curing at moderate temperature is suggested to obtain the best system performance
<b>EN 1504-4</b>	FibArm Resin HT+ meets the performance requirements of legislation EN 1504-4 for bonding and structural reinforcement.
<b>Features</b>	<ul style="list-style-type: none"> <li>• High thermal resistance</li> <li>• composition with improved mechanical characteristics</li> <li>• Designed specifically for the FibArm system</li> <li>• High mechanical properties</li> <li>• High adhesion to different surfaces: concrete, masonry, metal, wood, stone</li> <li>• Convenient for impregnating tapes and fabrics manually</li> <li>• Does not require a primer</li> <li>• Solvent free</li> </ul>

<b>Typical system characteristics</b>		Resin	Hardener
	Color	Pale/yellow	Pale/yellow
	Viscosity (25°C), mPas	6000-8000	50-100
	Density (25°C), g/ml	1,13-1,17	0,93-0,97
	Mixing ratio (Wt/Wt)	100	35
	Pot life (100 ml; 40mm), min	240-280	
	Suggested curing cycles	6h 85°C	
	<b>Properties determined on standard specimens cured 6 h 85°C</b>	System color	Pale yellow
System density (25°C), g/ml (ASTM D792)		1,12-1,16	
Max. recommended operating temperature		100 °C	
Flexural strength (25°C), MPa (ASTM D790)		120-130	
Flexural Modulus of Elasticity (25°C), MPa (ASTM D790)		2900-3200	
Shear strength (snatch, plate-plate steel, 25°C), MPa (EN 12188)		>14	
Glass transition temperature (ASTM D3418)		107-113°C	
Maximum Tg (15h 120°C)		117-123 °C	
<b>Sales Package</b>	System is sold in packs Component A: 20 kg Component B: 7 kg		
<b>Instructions</b>	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. Apply with roller.		
<b>Requirements for tapes and fabrics</b>	Apply with a roller or trowel on the surface to be strengthened, properly prepared and not wet. 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.		
<b>Precautions</b>	Consult the safety precaution and comply with the provisions relating to industrial hygiene and waste disposal		