

Ultra High Shear Strength up to 35N/mm²
High Peel Strength [Cleavage Strength] up to 12N/mm²
Excellent Bond on Concrete or Steel Structural
for Build Strip [Plate] & Build Seal Prepreg only

Two Component Epoxy Paste Adhesive

Key Properties Advantages

- * Suitable for Strip Laminates as Carbon Fiber & SMC Bonding
- * Gap Filling, Non Sagging up to 6.00 mm Thickness
- * Ultra High Shear Strength up to 35 N/mm²
- * High Peel Strength (Cleavage Strength) up to 12 N/mm²
- * Toughened Adhesive
- * Thixotropic
- * Properties of Good Curing, Glass Transition & Clamp Time
- * 3 Design of Curing Time for Standard, Slow & Fast Adhesive
- * Fire Resistance

Description **Epo Adhesive Strip 335** is a two component, room temperature curing paste adhesive giving a resilient bond. It is thixotropic, high Shear & Cleavage strength and non sagging up to 10 mm thickness. It is particularly suitable for Concrete bonding to Concrete, Concrete bonding to Carbon Fiber Laminates Strip, Concrete bonding to SMC Panel and Metal bonding to Metal.

Processing
Pretreatment The strength and durability of the bonded joint are depending on proper treatment of the surfaces to be bonded. At the very least, joint surfaces should be cleaned with a good degreasing agent such as Acetone, Trichloroethylene or proprietary degreasing agent in order to remove all surfaces of oil, grease and dirt.

Alcohol, gasoline (petrol) or paint thinner should never be used.

The strongest and most durable joint are obtained by either mechanically abrading or chemically etching (pickling) the degreased surfaces. Abrading should be followed by a second degreasing treatment.

Application The resin and hardener mix is applied with a Spatula Tools, to pretreated and dry joint surfaces.

A layer of Adhesive from 0.05 mm to 6.00 mm thick normally impart the greatest lap Shear Strength to the joint.

The joint component should be assembled and clamped as soon as the Adhesive has been applied. An even contact pressure throughout the joint area will ensure optimum cure.

Mechanical Processing

Specialist firm have developed metering, mixing and spreading equipment that enables the bulk processing of Adhesive. LaMaCo will be pleased to advise customers on the choice of equipment for their parculars needs.

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Times to Minimum Shear Strength

Temperature	°C	10	15	23	40	60	100
Epo Adhesive Strip 335 Fast Adhesive							
Cure time to reach							
Lap Shear Strength > 35 N/mm2	Minutes	180	120	60	20	10	2
Epo Adhesive Strip 335 Standard Adhesive							
Cure time to reach							
Lap Shear Strength > 35 N/mm2	Minutes	420	240	120	30	20	7

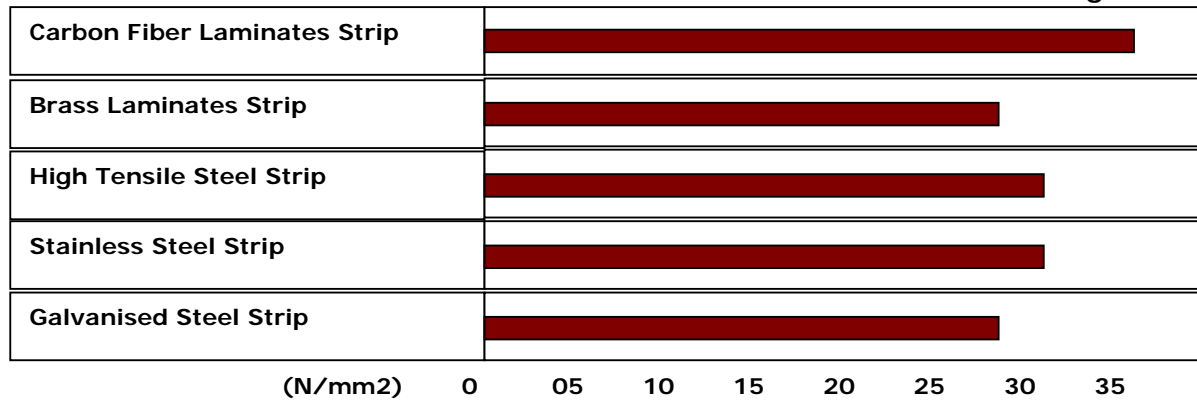
Typical Cured Properties

Unless otherwise stated, the figures given below were all determined by testing standard specimens made by lap-jointing 170 mm x 25 mm x 1.50 mm strip of Carbon Fiber. The joint was 12.5 mm x 25 mm in each case.

The figures were determined with typical production batches using standard testing methods. They are provided solely as technical information and do not constitute a product specification.

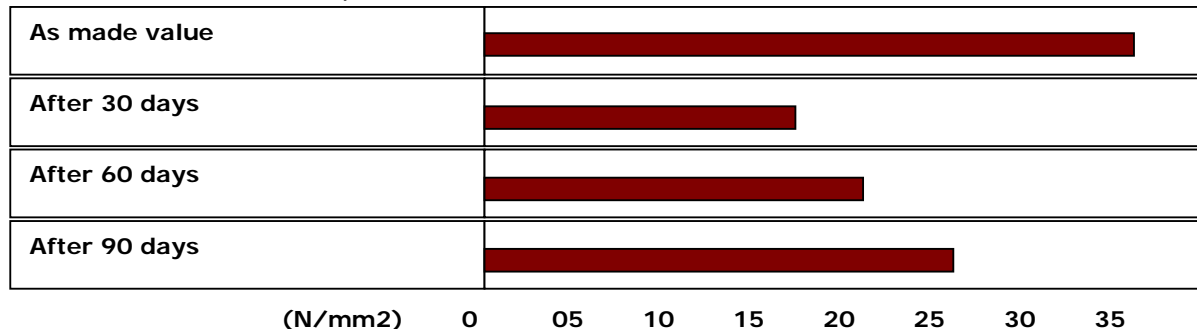
Average of Lap Shear Strength of Typical Strip CFGP to Strip GFRP OR Metal to Metal Joint

Cured for 16 hours at 40 °C and tested at 25 °C Pretreatment – Sand Blasting



Lap Shear Strength Versus Tropical Weathering (Typical Average Values)

Cure: 16 hours at 40 °C, tested at 25 °C



Epoxy Adhesive Properties of Specification

Appearance	Component A:	2 parts by weight
	Component B:	1 parts by weight
Shear Strength	35 N/mm ²	
Peel Strength (Cleavage)	12 N/mm ²	
Tensile Strength	at 35 °C	42 N/mm ²
Tensile Modulus	2 Gpa	
Elongation at Break	4.4 %	
Dielectric Constant	5.6 at 1 kNz (Note: 500v at 35 °C)	
Colour (visual)	Neutral Paste	
Specific Gravity	1.4	
Sag Flow	at 35 °C	0.05 mm to 6.00 mm thick
Shrinkage	0.04%	
Glass Transition Point	> 110 °C	
Coefficient of Expansion	9 x 10 ⁻⁶ per °C at 10°C to 40°C	
Open Time	at 35 °C	> 120 minutes
Pot Life	at 35 °C	> 10 to 40 minutes
Shelf Life / Storage	36 months in original packaging & stored at 5°C to 25°C	
Packing:	36.50 kg set (25.00 kg of Part A – Resin) (11.50 kg of Part B - Hardener)	

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