

Technical Data Sheet

Date of Issue: 1st May 2020

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Product Name : RELInforce C Lam PU

RELInforce C Lam PU 120/5
RELInforce C Lam PU 100/5
RELInforce C Lam PU 50/5

Description

Polyurethane (PU) Impregnated carbon fiber laminates for Structural reinforcement.

Application Areas

- Structural strengthening, restoration, reconstruction, repair, seismic retrofitting of reinforced concrete/concrete, masonry, metal (Steel), Wood constructions.
- Increasing the load capacity of reinforced concrete/concrete, masonry, metallic and wooden structures (including complex geometric shapes, as well as in confined spaces) without increasing their weight.
- Increased seismic resistance.
- Structural strengthening of bridges.

Features & Benefits

- High Mechanical characteristics
- Lightweight: System does not create an additional load on construction
- Corrosion resistance
- Minimum labor and time spent on work
- Low transportation cost
- Ability to perform repair without interrupting the operation of buildings or structures
- No additional costs for further operation
- Peel-ply coverage for surface protection and enhancement of adhesion characteristics

Properties of RELInforce C Lam PU series

RELInforce C Lam PU	120/5	100/5	50/5
Resin	PU		
Fiber Content, %	> 65		
Fiber Direction	0°		
Width, mm	120	98 ± 2	50
Thickness, mm	5		
Cross Section, mm ²	600	490 ± 10	250
Tensile Strength, MPa	≥ 1100		
Tensile Modulus, GPa	≥ 150		
Flexural Modulus, GPa	> 140		
Flexural strain, %	> 0.72		
Transverse Flexural Strength, MPa	> 50		
Interlaminar Shear Strength, MPa	> 52		

Vadodara Composites Division, Village: Asoj, Vadodara-Halol Expressway, Taluka: Waghodia, Vadodara, Gujarat 391510

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Note:

1. Suggest adhering *RELInforce C Lam PU* using *RELInforce Lam A*. Result might change when used with other resin system.
2. Values mentioned above are indicative.
3. For Specific & Critical need, designer is advised to get independent testing to ascertain the values for assurance of intended performance.
4. Refer to *RELInforce Lam A* product datasheet to understand the property of adhesive.

Packaging Size

RELInforce C Lam PU is supplied in 11M Length. Special length can be supplied depending on the requirement & availability.

Shelf Life

NA

Precaution

Precaution to be taken that it is kept in roll form only.

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