

Technical Data Sheet

Issue No. 0.0

Date of Issue: July-2019

Product Name: RelFix LV

Two Component thick Epoxy based Structural Adhesive for RelWood™

Description

RelFix LV, an easy to use two-component solvent free thick reinforced epoxy-based adhesive for bonding RelWood™ to RelWood™ sheets or Relwood™ to any other wood like material with excellent bonding characteristics.

Application Areas

- Structural Bonding between sheets of any wood or wood like material for better long term dimensional stability
- Excellent adhesive for unlike materials like RelWood™, packing ply, particle board, wood, Bakelite etc.
- Outdoor wood furniture / fixtures

Features & Benefits

- Excellent adhesion to any wood surfaces
- Solvent Free
- Pre-weighted Packing: No onsite proportioning required
- Thixotropic with easy application
- Can be grinded, planed, cut or drilled after drying
- designed for vertical or overhead applications

Mechanical Properties

Compressive Strength @ 25° C (As per IS 6746) 7 Days	>50 MPa
Tensile Strength @ 25° C (As per ASTM D638) 7 Days	>40 MPa
Flexural Strength @ 25° C (As per ASTM D 790) 7 Days	>30MPa
Bond Strength @ 25° C 7 Days	>wooden Laminate failure

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Component Details & Physical Property

	Component A	Component B	Mixed
Feel	Thixotropic Paste	Thixotropic Paste	Paste
Color	white	Beige	-
Mixing Ratio	100	100	-
Viscosity @ 25° C mPa.s	40000 - 70000	260000 - 380000	-
Density @ 25° C g/cc	1.55 – 1.60	1.72 – 1.78	1.60 -1.65
*Pot Life @ 25° C			60 - 70 minutes @ 25°C
Odor	Slight	Typical amine	
Water Absorption	Nil	Nil	Nil

Note: * Ambient Temperature will affect the Pot life & Setting Time of the Product & is inversely related

Mixing Procedure

- Mixing ratio: Component A -100 & Component B -100
- Full Pack Mixing is ideally suggested for accurate result
- Part Mixing suggested only if precise proportioning facility available at site
- Mechanical Mixing using low speed stirrer is suggested
- Mixing till uniform color achieved of the mixed material.

Application Procedure

- Surface to be clean of Oil, Grease, dust & any other material which will affect the adhesion of RelFix LV to Substrate
- Substrate Residual Moisture to be less than 4%. Not to be applied on substrate with rising dampness.
- Apply the mixed material with trowel or roller over the substrate to achieve required thickness. Application to be done on both sides which come into contact with each other.
- Sufficient quantity to be applied so that the bonding layer between both substrates are sufficiently thick. The rigidity against load/heat deflection will depend on the thickness achieved.
- Application to ensure a uniform and thick bonding layer and allow for at least eight hours for good bond strength

Packaging Size

- 5 kg
- 10 Kg

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Shelf Life

- Base: 12 Months
- Hardener: 12 Months

Storage Condition

- Material to be stored in cool dry place
- To be kept in shade with no direct sunlight

Health & Safety Hazard Condition

Please refer to MSDS for detailed information on the health & safety hazard while using the product.

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