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REPIKIT EP 340 WOOD

EPOXY ADHESIVE PASTE FOR FIXINGS ON SOLID AND GLULAM WOOD

Two component cartridge containing thixotropic bi-component adhesive paste based on epoxy resins for fixing of connectors and bolts to wood and any building material.

Areas of use

- Fix bolts, connectors, threaded and tension rods to glulam and solid wood;
- Fix connectors of steel, carbon, aramide and glass fibre;
- Can be used for anchor on concrete, stones and bricks.

Features

REPIKIT EP 340 WOOD ensures a really good adhesion because the hardening has no-shrinkage thanks to solvent free epoxy resins and amino-hardener.

The two are blended outside the cartridge using a static mixer when the product is extruded: thanks to outside mixing the cartridge can be partially used in different moments by simply replacing the nozzle of the mixer.

Resin and hardener have two different colours for visual control during mixture; after the first 10 ml of extruded product an evenly coloured material is achieved. It ensures an even product and constant quality during fixing.

Product reactivity increases with temperature.

How to use

Preparation of the support

Make a regular size hole and clean it with a pipe cleaner and compressed air to eliminate fragments and dust; do not use water for cleaning.

Preparation of the product

Screw the static mixer on the head of the cartridge and extrude its contents using the appropriate coaxial gun (manual or pneumatic) eliminating the first 10 ml of material until the colour of the paste gets homogeneous.

Application

Inject REPIKIT EP 340 WOOD, starting from the bottom of the hole until you fill in approx. 2/3 of the volume. Insert the fixing element (rod, bolt, etc.) rotating it and moving it with the fingers to get rid of air bubbles to improve adherence to resin. The operation is done correctly when a small amount of material comes out from the hole.

Remove the excess of product from the hole.

If, once the work is finished, the cartridge had not been completely used, unscrew and eliminate the static mixer which cannot be used again and close using the appropriate screw cap.

Notes

To reuse a partially used cartridge you need to remove the tap of hardened material, screw a new mixer and repeat the procedure.

You must respect workability times between fixings to prevent the product from hardening in the static mixer. Do not expose REPIKIT EP 340 WOOD cartridges to the sun or heat sources before use to avoid reducing workability times.

Best results are achieved when anchorage is done on wood with good mechanical resistance.

Do not use in wet or damp holes.

Technical characteristics

Compression strength	(DIN 53454)	> 80 N/mm ²
Tensile strength	(ISO R 527)	> 23 N/mm ²
Elongation at break	(ISO R 527)	2,0%
Flexural strength	(ISO 178)	> 25 N/mm ²
Modulus of elasticity – tensile	(DIN 604)	5000 N/mm ²
Adhesion to dry concrete (*)	(ISO 4624)	> 4,5 N/mm ²
Adhesion to damp concrete (*)	(ISO 4624)	> 3 N/mm ²
Adhesion to steel (*)		3 N/mm ²
Viscosity at 20 °C		20000 cP
Specific gravity at 25 °C		1,50 kg/dm ³

Results obtained after 7 days at 25 °C

(*) adhesion test done by direct traction.

Pull out adhesion

Pull out - transversal	M8	M10	M12	M16
Ø rod [mm]	8	10	12	16
Ø hole [mm]	10	12	14	18
Hole depth h [mm]	80	90	110	120
Load at failure [kN]	19,6	27	36	49
Type of failure	Cohesive failure of wood			

Pull out - longitudinal	M8	M10	M12	M16
Ø rod [mm]	8	10	12	16
Ø hole [mm]	10	12	14	18
Hole depth h [mm]	80	90	110	120
Load at failure [kN]	19,6	26	42	50
Type of failure	Cohesive failure of wood			

Results are obtained on glulam wood type GL24 40x18x25 cm.

Use and hardening times

When mixing the reaction between the two components starts: time available is therefore limited and it depends on the temperature.

Temperature	Working time	hardening
10°C	80'	18 h
20°C	30'	10 h
30°C	20'	6 h
40°C	12'	4 h

Full hardening after 7 days.

Consumption

Ø rod [mm]	Ø hole [mm]	Hole depth [mm]	Cartridge 450 ml n° fixings (ca.)	Cartridge 900 ml n° fixings (ca.)
8	10	80	100	200
10	12	90	60	120
12	14	110	35	70
16	18	120	20	40
20	24	170	8	16
24	28	210	4	8

Packages and storage

450 ml cartridge packaged in box of 12 pc with mixer nozzles included.

900 ml cartridge packaged in box of 10 pc with mixer nozzles included.

If stored in its original and sealed package, the products remains unaltered for at least a year if kept in a dry environment with a temperature between 5 and 30 °C.

Do not expose to heat sources or put near naked flames.

Cleaning of tools and health precautions

To clean tools use solvents such as RESISOLV 111, RESISOLV 196 or alcohol.

Polyester resins may cause irritations: please avoid any contact with the skin and spray in the eyes. It is recommended to wear protective glasses and gloves.

Avoid inhaling styrene vapours release by the product during use: ensure proper ventilation during use and wear a protective mask to protect your respiratory tract.

In case of contact with the skin, immediately clean with a cloth soaked in denatured alcohol and wash with water or neutral soap or handwash paste. Then use a nourishing cream.

In case of contact with eyes or mucosa, do not use alcohol. Rinse immediately with running water and neutral soap for 10/15 minutes, then seek medical advice.

Do not rinse with solvents.

The information supplied in this sheet is the result of the best practical and laboratory experiences of RESIMIX, which guarantees its products when used according to the instructions supplied. It is nonetheless up to the customer to ensure the product is suitable for the intended use. The manufacturer declines any responsibility for incorrect use or uses beyond his control. RESIMIX reserves the right to make changes to the data. For any request, please contact the RESIMIX Technical Assistance Office.