

ECMABOND 520

Solvent Free, Thixotropic, Epoxy Bonding Adhesive

Description

ECMABOND 520 is a solvent free, two component, thixotropic, multi-purpose epoxy adhesive consisting of resin, hardener and selected fillers. It has the consistency of a thixotropic paste thereby it is suitable for both horizontal and vertical applications. It is designed for bonding dissimilar materials like TPE/ EPDM based Expansion joint tapes, metal plates, plywood, asbestos etc. to concrete and other cementitious substrates. It conforms to ASTM C 881.

Areas of Application

- Used as an adhesive for ECMAFLEX joint tape.
- A highly effective adhesive for most building material including steel and concrete substrates.
- Bonding Steel to concrete
- Filling cracks in concrete structures
- Sealing cracks in cement screeds, concrete floors/ pavements.

Advantages

- Solvent Free
- Thixotropic, easy to apply on vertical surfaces also
- High mechanical characteristics
- Impermeable to water and vapor
- Accommodates high structural movement
- Flexible even at low temperatures
- High pH resistance
- Polymerizes without shrinkage

Technical Specifications

Appearance	Pack A- Grey & Pack B- Reddish Brown
Physical State	Pack A- Paste & Pack B - Paste
Mixing Ratio	Pack A: Pack B – 3:1
Specific Gravity at 27 °C	Pack A: 1.80±0.1, Pack B – 1.35±0.1
Pot Life 27 °C	>40 Minutes
Initial Setting Time at 27 °C	4-5 hours
Solubility	0.1%
Thixotropy, mm ASTM C 881	Not more than 30
Shrinkage	<0.4%
Compressive Strength, ASTM D 695 N/mm ²	
1 Day	>50
7 Days	>70
Bond Strength ASTM C 882	8 MPa minimum
Coverage Kg/mm/m ²	1.8

Application Instructions

Surface Preparation

All substrates shall be sound, dry and free from dust, standing water, grease, oil and other contaminants which may adversely affect the adhesion. Concrete surface should be minimum 28 days old.

Steel surfaces must be cleaned and prepared thoroughly to an acceptable quantity i.e. by shot blasting and vacuum cleaning. Surface temperature must be above 5°C and below 35°C as well as 3°C above dew point.

Mixing

A suitable power-driven mixer /stirrer is recommended for uniform mixing of the ECMABOND 520. First, stir the base and hardener separately and then mix hardener gradually in to the base under continuous stirring as per the stated mixing ratio and mix well for 5-6 minutes till the mixed material becomes homogeneous and wait for 3-4 minutes to allow entrapped air to be released.

Application

The mixed product shall be spread by notched steel trowel or spatula in required thickness. Apply the mixed material on both sides of the surfaces to be bonded and shall be pressed well using roller or by any suitable means immediately or within the setting time of the adhesive.

Packaging

Total Kit (A+B) = 6 Kg.

Shelf Life

12 Months in original unopened sealed condition.

Storage & Handling

Material should be stored in Cool and Dry shade at temperatures below 30°C. Also Protect it from Direct sunlight. Please avoid stacking of containers and handle carefully during transport.

Safety Precautions

Wear all PPE's at the time of application like Safety boot, Safety Goggle, Hand Gloves, Mask and avoid direct contact with Skin and Eyes. Any direct skin contamination should be washed off immediately with soap and water.

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