

YASH EPOXY BOND 801



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Epoxy bonding agent for concrete

Description

Yash Epoxy Bond 801 is a two component, solvent free epoxy resin bonding agent, supplied in pre-weighed packs containing base and hardener. Yash Epoxy Bond 801 is especially designed to bond fresh to old concrete or cementitious materials.

Applications

Yash Epoxy Bond 801 is a permanent epoxy adhesive for bonding fresh wet concrete/cementitious material to old concrete/cementitious surfaces, which is suitable for internal and external application.

Advantages

- High bond strength.
- Moisture tolerant; can be applied to damp surfaces.
- Slow cure, allows more time for subsequent works such as fixing steel reinforcements and erecting shutter.
- High strength.

Method of Use

Substrate Preparation

The Substrate should be sound, clean and free from contamination. Surface laitance should be removed by acid etching or light grit blasting. Oil, grease, and fat deposit should be removed by using either appropriate degreaser or steam cleaning. Weak or deteriorated concrete should be removed by scrubbing, chipping or grit blasting.

Mixing

The base and the hardener should be mixed separately before mixing together to disperse any settlement. Carefully transfer the entire contents of the hardener container into the base component container and thoroughly mix using slow speed drill with appropriate mixing paddle for 3 minutes until uniformity is obtained.

Do not attempt to mix partially nor add any thinning materials.

Yash Epoxy Bond 801 is designed to have an overlay time of 9 hours at 25°C, and 3 hours at 40°C. This should allow for subsequent works such as steel reinforcements fixation and shutter erection.

Technical Properties:

Tensile strength: ASTM D638 @ 14 days	≥ 35 MPa @ 25°C
Compressive strength: ASTM D695 @ 14 days	65 MPa @ 25°C
Bond strength: (old to new system) ASTM D882-99 @ 14 days	> 12 MPa @ 25°C
Elongation: ASTM D638	> 10%
Water absorption: ASTM D570-98	< 0.1%
Minimum overlay time	After 1 hr or when become Tacky
Maximum overlay time	9 hr @ 25°C 3 hr @ 40°C
Working life: ASTM D2471	6 - 7 hr @ 25°C 2 - 3 hr @ 40°C
Colour:	Pink
Specific gravity:	1.4 ± 0.05 @ 25°C
VOC:	< 10 g/ltr

Application

Yash Epoxy Bond 801 should be applied immediately after mixing using a short haired paint brush. The material should be painted evenly across the whole surface and left for at least two hours or until it become tacky before the new concrete, screed or mortar is placed.

Care should be taken to apply the new concrete, screed or mortar within the overlay time specified in Technical Properties.

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Failure to do so will have an adverse result and the material will form a de-bonding plane rather than a bonding coat.

Minimum application temperature is 5°C while temperatures exceeding 35°C will decrease pot life and Setting time.

Notes:

✦ If temperature of the material is less than 12°C, it is needed to elevate their temperature to 25°C before the application.

And if the ambient and the substrate temperature is less than 5°C, don't use the material.

Also, at high temperatures (35°C and above), cooling the material is needed before the application. And try not to make the application in the middle of the day or under direct sunlight.

Cleaning

All tools should be cleaned immediately after finishing by YASH solvent. Hardened materials should be cleaned mechanically.

Packaging

Yash Epoxy Bond 801 is available in 1 (0.7 litre) and 5 kg packs (3.6 litre).

Coverage

3.0 3.5 m²/kg.

Storage

Yash Epoxy Bond 801 has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C.

If these conditions are exceeded, YASH Technical Department should be contacted for advice.

Cautions Health and Safety

Yash Epoxy Bond 801 should not come in contact with skin or eyes. Rubber gloves and eye protection should be worn all the time. The use of barrier cream is recommended on exposed areas of the skin. In case of contact with eye, rinse with clean water and seek medical consultation.

Fire

Yash Epoxy Bond 801 is non flammable.

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- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.

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