

Description

EPA is a thixotropic, solvent free Epoxy adhesive ideal for bonding a wide range of building materials to one another eg. concrete, brick, metal, stone and wood.

EPA has a high level of mechanical integrity and exhibits excellent bonding characteristics even under damp conditions.

EPA is easy to mix and apply and requires no primer.

Typical Uses

EPA is a versatile, epoxy paste adhesive being particularly suitable for all general purpose bonding operations.

EPA may also be used for thin section concrete repairs.

Advantages

- Colour coded components to ensure correct mixing
- Excellent adhesion to most building materials
- Bonds to damp substrates
- Low odour
- Thixotropic nature facilitates application in both vertical and overhead locations.
- Very good chemical properties and cohesive strength
- Resistant to water, weathering, and a wide range of chemicals
- No primer required
- Creep resistant

Typical Properties

Colour:	light grey
s.g.:	1.5g/cu.cm
Pot Life:	50 minutes @ 20C
Compressive strength:	40N/Sq.mm. (1 day @ 20C) 75N/Sq.mrn.(7 days @ 20C)
Tensile Strength:	18N/Sq.mm.
Moisture resistance:	<0.40% increase at 28 Days (BS 6319: part 8)
Lap Shear Strength to grit blasted steel:	14N/Sq.mrn.
Shrinkage on curing:	Negligible
Hold up:	>15mm
Application temperature range:	3C — 30C
Drying/Curing Times:	Touch dry after 4-6 hours @ 20C Hard dry after 10 - 12 hours @ 20C

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PROCEDURE

1. Surface Preparation

a) Concrete substrates shall be sound, clean and free from dust, dirt, grease, oils, laitance and other contaminants. A roughened or profiled surface will ensure optimum adhesion.

b) Mild steel and other metallic substrates shall be degreased, power wire brushed or grit blasted and vacuumed free from dust.

If the prepared metal surface will not be treated immediately then an anticorrosive holding primer such as Steelprime must be applied to prevent flash rusting. Please refer to the Steelprime product data sheet for additional information.

c) Other substrates shall be sound, clean and free from dust, dirt, grease, oil and any oxidised surface layer.

2. Mixing

The Base and Curing Agent components shall be thoroughly mixed together using a stiff spatula or a slow speed drill with paddle attachment, until a uniform grey mixture has been produced.

3. Application

The application of EPA is best achieved using spatula, trowel, serrated trowel or stiff-bristled brush depending on the area to be treated.

a) Bonding surfaces together EPA should be applied to each of the two surfaces to be bonded. The two surfaces are then pushed together to achieve the required bond thickness. Excess adhesive should be removed and the joint protected from movement until the resin has set.

b) Patch repairs

Scrape or knife in the EPA and finish with trowel, palette knife or spatula.

NOTE: For more inaccessible areas, EPA may be placed into empty cartridges and injected/gunned into place using a standard sealant gun.

4. Equipment Cleaning

Clean all equipment, immediately after use, with Toolclean.

5. Curing

EPA will be hard dry following 10 -12 hours cure @ 20C. At higher temperatures this period will be reduced and at lower temperatures this period will be increased.

Allow 7 days for optimum mechanical properties and full chemical resistance.

6. Packaging

EPA is supplied in 1Kg, 2Kg and 5Kg packs.

7. Coverage

1 Kg of EPA will be sufficient for 0.67 Sq.m. at 1mm thick.

2Kg and 5Kg packs pro-rata.

8. Storage and Shelf Life

Store in dry conditions, out of direct sunlight at temperatures between 10C - 25C.

Protect from frost.

EPA has a minimum shelf life of 12 months when stored in original, unopened containers, in accordance with the manufacturers recommendations.

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9. Limitations

EPA should not be applied at temperatures below 3C.

Do not apply to uncured concrete surfaces.

10 Health and Safety

Avoid contact of material with skin and eyes. Wear appropriate gloves, overalls and eye protection during use.

Wash off skin with soap and water.

Any eye contamination must be rapidly irrigated with copious amounts of clean water and immediate medical attention sought.

Please refer to Material Safety Data Sheet for additional information.

EPA shall be applied in accordance with the manufacturers inspections.