



# E1A : E1B

**2 PARTS SOLVENT FREE EPOXY FOR BONDING AND COATING.**



**E 1 A RESIN Solvent Free Clear Epoxy for Bonding and Coating**  
**E 1 B CURING AGENT Solvent Free**

## USES

- **E1B** can be injected or coated over hairline cracks and cavities in building, concrete structures adhesive, masonry and bricks to stop water leakage.
- **E1B** can be used as a coating or bonding agent for most metal, stone and marble surface.  
Zinc Dust can be added to increase corrosion protection for metal surface. **E1** can be coated over rusty cast iron pipe to stop leakage.
- **E1B** can be used for casting and encapsulation.
- **E1B** can be added with grout powder to grout the tile gap, so to prevent bacteria growth.

## FEATURES

- **E1B** is a high viscosity epoxy with excellent adhesion, compressive and tensile strength.
- **E1B** has good abrasion and chemical resistance.
- **E1B** can adhere to all dry and damp surfaces except for rubber and plastic surfaces.

## APPLICATION METHOD

<b>Mix Ratio</b>	<b>E1 A Resin:</b>	<b>E1 B Hardener</b>
	<b>2</b>	<b>1</b>

## CEMENT FLOOR COATING

- Ensure surfaces are clean and of Medium Rough finishes to provide better bonding.
- Etching with **AS17 ANTI SLIP Solution** will provide better surface bonding.
- Very smooth surface like polished marble, ceramic tile does not provide a good bond, as Epoxy tend to develop surface tension during the curing process, causing the epoxy to delaminate.
- **PRIMING** : Use **E1 BW Water Dilute-able Hardener + 30 % Water** as primer to coat the floor thinly. Allow to cure for 6 hours.
- Before applying **2<sup>nd</sup> Top Coat** of **E1 A + E1 B Solvent Free Coating**.

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- Mix with a drill-mixer for 5 to 10 minutes to ensure complete mixing. Otherwise it may not cure well. Care should be taken not to over or under-mix.
- After mixing, put the MIX aside for 5 minute for the foam to float to the top, break the foam by a cutting action, before use.
- Use the MIX within 60 minutes, before it starts to gel and thicken.
- If thinning is required, Xylene (Thinner AAA) or Ethoxy Propanol can be added:
  - 1 % to 10 % can be added into **E 1-B Curing Agent**, dilute it before mixing into **E 1- A Resin**.
  - It will also shorten the pot life. Thinner will help in promoting wetting and adhesion.
- Clean the tools with Thinner before it hardened.
- For Floor Coating: adding 5 to 10% of THINNER into the CURING AGENT will improve mixing, clarity, leveling, and also accelerate the setting time.

### For Metal Protection

Add **Zinc Powder Mix** into **E1-A RESIN**, stir the powder and mix well.

Adding **E1 B CURING AGENT**.

Add anti-foam or wetting agent if needed.

Mix Ratio	<b>E1A Resin</b>	+	<b>E1-B Curing Agent</b>	=	<b>2</b>	:	<b>1</b>
	<b>Epoxy A + B Mix</b>	+	<b>Zinc Powder Mix</b>	=	<b>1</b>	:	<b>2</b>

**E 1-B Curing Agent** added in lesser quantity will reduce the curing time.

Reduce dosage of

**E 1-B Curing Agent** will improve clarity and hardness of the cure resin.

Higher dosage of

**E 1-B Curing Agent** will increase flexibility and an opaque finishes.

### TECHNICAL DATA

- Tensile Strength: 500 kg / cm<sup>2</sup> @ 7days
- Compressive Strength: 775 kg / cm<sup>2</sup>
- Bending Strength: 800 kg / cm<sup>2</sup>
- Heat Deformation Temp: 50 °C
- Colour: Cured resin is transparent with a Light Yellow tint.
- Pot Life: 70 minutes
- Gel Time: 1 hours 40 minutes
- Dry to the Touch: 5.3 hours
- **Mix Ratio:** **2 : 1**

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## 2 PARTS SOLVENT FREE EPOXY FOR BONDING AND COATING.

- Dry to the Touch: 5.3 hours
- Hardening Time: 16 hours
- Fully Cure Time 48 hours
- Coverage: 0.7 kg /m<sup>2</sup> per 1 mm thick for coating.  
1 kg /m<sup>2</sup> per 1 mm thick for Pebble Stone Bonding.

Chemical resistance (weight changes after 10 days immersion, %)

Water	:	0.5
10% HCl	:	0.8
10% NaOH	:	0.7
10% H <sub>2</sub> SO <sub>4</sub>	:	1.9

### CAUTION:

- **Curing Agent will cause skin irritation. Please apply Barrier Cream to reduce skin contact. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**
- **Customer is advised to carry out a test by mixing & coating on a spot. Our liability is limited to the material only.**

### PACKING

1 set consists of

<b>E 1 A</b>	<b>Resin</b>	<b>1</b>	<b>kg-tin</b>
<b>E 1 B</b>	<b>Hardener</b>	<b>0.5</b>	<b>kg-tin</b>

or

<b>E 1 A</b>	<b>Resin</b>	<b>2</b>	<b>kg-tin</b>
<b>E 1 BW</b>	<b>Hardener</b>	<b>1</b>	<b>kg-tin</b>



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