

# COPOX-13

## Epoxy Patching Compound



### Description

COPOX-13 is solvent-free epoxy resin compound specially formulated for the repair of faulty concrete, curing taken place even at low temperature and high humidity. The cured resin exhibit several outstanding properties, such as high mechanical strength, excellent adhesion to a wide range of substrates, outstanding resistance against water and chemicals, negligible shrinkage, etc.

### Recommended Application

- Repair concrete honey comb
- Heavy duty and chemical resistant flooring.
- Anchorage reinforcing steel bar into concrete and rocks
- Grouting of machine and rail
- Heavy duty anticorrosive coating.

### Properties Before Curing:

	<b>Part A</b>	<b>Part B</b>	<b>A+B</b>
-- Colour :	White	Black	Grey
-- Viscosity :	4000cps	4500cps	4300cps
-- Density :	1.5g/cc	1.1g/cc	1.4g/cc

### Application Data:

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-- Mixing Ratio :	<b>COPOX-13</b>	<b>Part A</b>	<b>150pbw.</b>
:	<b>COPOX-13</b>	<b>Part B</b>	<b>50pbw.</b>
	<b>Graded Sand(Optional)</b>		<b>0-800pbw.</b>

### Suggested Formulation:

- 1) Crack Repairing  
Part A : Part B                    3 : 1
- 2) Grouting and anchoring  
Part A : Part B : Sand            3 : 1 : 8
- 3) Concrete repairing  
Part A : Part B : Sand            3 : 1 : 16

**Pit Kife : 1 -1.5 hour.(25 C)**

**Curing Time : 20 hours (25 C)**

- Make sure the mixing ratio right to maintain proper chemical crosslinking.
- Substrates to be applied must be dry, sound and grease free.

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# PTAR-56

## High Build Coal Tar Epoxy Coating



### Recommended Film Thickness

225 micron

### Coverage Rate

0.35 Lit/ M<sup>2</sup> (thickness of layer 0.3mm)

### Delivery, storage and handling

Approx. 12 months in their original, unopened packages, and protected from exposure to the elements.

### Application Method

#### 1. Surface treatment

- Concrete : The surface of concrete should be dry, sound, clean and free of loose material and grease.
- Steel : Derusting by wire brush or sand-blasting, ensure that the surface should be dry ,clean, and free of loose material and grease.

2. Stir Part A thoroughly, then follow the mixing ratio and add Part B (hardener) and mix thoroughly with electric stirrer. Apply the material immediately after mixing. Please note that the application temperature should be over 10°C

3. Apply the material by brush, roller, conventional spray gun or airless spray gun.

4. Use TH-56 thinner for not more than 6% (by volume) of total volume if necessary.

### Technical Data

	<i>7 days</i>	<i>28 days</i>
Flexural Strength (BS 6319:Part 3: 1983 based)	6.0 N/mm <sup>2</sup>	15.8 N/mm <sup>2</sup>
Tensile Strength (HKHA/ MTS (2002/2004) Specification Part D Clause 2.1.3)	2.5 N/mm <sup>2</sup>	3.3 N/mm <sup>2</sup>

Resistance to chemical (BS 3900: G5: 1993(AMD 8355) / BS EN ISO 2812:1995)	
Resistance to 70% alcohol	No discernible change
Resistance to 0.1M HCl solution	No discernible change

### Loyal Enterprise Company

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Resistance to 0.1M NaOH solution	No discernible change
Salt spray test (100 hours) (BS 3900 : F12 : 1997)	No discernible change
Impact resistance (BS 3900 : E3 : 1973(1991))	No cracking and no loss of adhesion
Scratch test (BS 3900 : E2 : 1992/ ISO 1518 : 1992)	> 4000 g
Pull off test (ASTM D4541-95)	3 N/ mm <sup>2</sup>

### Health and Safety

The product above contains polyamine, coal tar, solvent and are harmful to eyes and skin. Use protective clothing and rubber gloves.

*The technical information and application advice given in this publication is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to the suitability of a product for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by commonwealth or State legislation the owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.*

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