# TECHNICAL DATA SHEET

## EPOXY PRIMER

**Solvent Free, epoxy primer**

### Description

EPOXY PRIMER is a two-component solvent Free primer consisting of modified epoxy resin-based primer that seals the substrate to prevent air release from the concrete surface and improving adhesion of epoxy coating and repair products.

### Features

- ✓ Reduce the porosity of surfaces such as concrete, mortar, bricks, etc.
- ✓ Exhibits good impact and abrasion resistance.
- ✓ Seals surface and prevent air release from damaging subsequent coatings.
- ✓ Strengthen the adhesion between substrates
- ✓ Easily applied by brush or roller.

### Uses

- ✓ EPOXY PRIMER is a high-performance primer, aiding application and improving adhesion of Epoxy Coating and repair products.
- ✓ It is used in conjunction with EPOXY TOP FLOOR COAT, EPOXY TOP CRYSTAL COAT, EPOXY STRONG COAT & EPOXY REPAIR TEP products.
- ✓ Ideally suited for applications over well prepared and mechanically sound substrate.

### Technical Data / Physical Properties:

| | |
|---|---|
| Appearance | Clear Liquid |
| Application Thickness | 50-100 Micron |
| Pot life(min) | 45-60 minutes 30C |
| Tack free time | 4 – 6 hours |
| Solid | 100 % |
| Flash point | Above 60°C |
| Pull off Strength | >2 Mpa |
| Finish Clear | Gloss |

### METHOD OF USE

### Surface Preparation:

**EPOXY PRIMER** is applied to a sound, clean and dry surface to achieve maximum bond strength between substrate and coating/repair products.

### Concrete substrates:

EPOXY PRIMER applied Concrete should be at least 25 days old. Laitance deposits on new concrete are best removed by light grit blasting, mechanical scabbling or grinding. On small areas, thorough acid-etching using EPOXY CLEANER Acid Etch may be considered. After etching, the substrate shall be thoroughly washed with clean water and then allowed to dry. Where heavy contamination by oil and grease has occurred or existing coatings are present; it is essential that all contaminations are removed by chemical Degreaser.

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## Priming

Mix EPOXY PRIMER entire content of hardener can to the base can and mix thoroughly for about 3 minutes. Once mixed, the EPOXY PRIMER shall be immediately applied in a thin continuous film using stiff brushes or rollers. Avoid overapplication and puddles. EPOXY PRIMER shall be allowed to become tack-free

prior to the application of epoxy coating but well within the open time specified for the given temperature. The hotter the substrate, the more quickly the Primer becomes dry.

## Coverage:

Apply EPOXY PRIMER 5m²/Ltr @200 microns

## Cleaning

EPOXY PRIMER should be removed from tools and equipment with CITY PAINTS Solvent immediately after use. Hardened material can only be removed mechanically.

## Shelf life

EPOXY PRIMER has a shelf life of 12 months if kept in a dry store between 50C and 30OC in the original, unopened packs.

## Storage conditions

EPOXY PRIMER stored in dry and cool conditions at temperatures below 25oC.

## Packaging

EPOXY PRIMER available in 15Ltr kits (Part A+B)

## Health and safety

EPOXY PRIMER should not come into contact with skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapors. Wear suitable protective clothing, gloves, and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. Use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then Cleanse with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately do not induce vomiting.

## Disposal

Spillages of component products should be absorbed onto earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local waste disposal authority regulations. For further information, refer to the Product Material Safety data sheet.

## Limited Warranty:

It is the responsibility of the customer to determine the suitability of the product for the intended purpose. Factors such as temperature, surface preparation and applicator's skills are beyond the control of the company. Therefore, the manufacturer's liability is limited to the replacement of the defective material only

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## EPOXY FLOOR TOP COAT

**Solvent Free, High Strength, epoxy Coating for concrete floors**

### Description

EPOXY FLOOR TOP COAT is a multi-component, Solvent Free, epoxy resin coating, designed to provide hard, and continuous protection to concrete floors, suitable for hot and tropical climate conditions.

### Features

- ✓ Easy to Apply for both concrete and steel
- ✓ High abrasion resistance.
- ✓ High Glossy and Non-Toxic
- ✓ High resistance to wear and tears.
- ✓ High chemical and mechanical resistance.
- ✓ Resists splashes and small incidental spillage of a wide range of chemical products.
- ✓ Provides smooth finishes and surfaces requiring cleaning.

### Uses

Used to protect concrete flooring. Typical application areas include:

- ✓ Car park and storage facilities.
- ✓ Aircraft hangars and maintenance areas.
- ✓ Internal Protective lining for potable concrete/steel tanks
- ✓ Traffic decking, Wall coatings
- ✓ Pedestrian walkways
- ✓ Food, Pharmaceutical and beverages handling area

Any other areas where a smooth, chemical resistant and washable surface is required. EPOXY FLOOR TOP COAT can also be applied as a non -slip coating with the addition of fine aggregates.

### Technical Data / Physical Properties:

| | |
|---|---|
| Appearance | Coloured Liquid |
| Pot life(min) | 60-90 minutes @ 25°C |
| Initial Curing time | 12 Hours |
| Final Curing Time | 7 Days |
| Recoating Time | 8 -24 hours @ 25°C |
| Mixed density(g/cc) | 1.45 ± 0.2 @ 30°C |
| Compressive Strength (ASTM C 109) | > 75 N/mm2 @ 28days |
| Flexural Strength (DIN 1048) | > 27 N/mm2 @ 28days |
| Bond Strength (DIN ISO 4624) | 2.5 N/mm2 @ 28days |
| Yield | 15 liters/20 kg |
| Solid % | 100 |
| Chemical Resistance | Excellent for Mild acids, Solvents |
| Coverage | 75 m2 /Pack/200micron thickness |

### METHOD OF USE

**Surface Preparation:** All surfaces must be clean and dry and free from oil, loose particles, cement laitance, and other contaminants which may affect adhesion. Wire brushing, sand blasting, grinding or solvent cleaning may be necessary to expose a clean and sound substrate.
Painted surfaces should have all loose paint removed as this will affect the strength of the bond. To optimize adhesion of both the primer and the subsequent topping or sealant, remove all round or sharp edges and corners.

Any damaged areas of floor should be made good and level before applying the coating. Ensure that the surface is completely dry before applying the primer.

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## New concrete

Unless water: cement ratio is below 0.45, the substrate should be at least 28 days old. Dry removal of laitance by light grit-blasting or diamond grinding are preferable but, where this is not feasible, treats with Pro Cleaner, followed by thorough rinsing with water and complete drying. Dust and other debris should then be removed by vacuum brush.

## Old concrete

A sound, clean substrate is essential to achieve maximum adhesion. Light grit blasting, diamond grinding or acid etching should be carried out as for new concrete. Oil and grease penetration should be removed by hot compressed air treatment. Very porous surfaces should be treated with Repair DP

## Priming:

Apply Solvent Free EPOXY PRIMER to a clean, dry surface by brush in a thin, uniform coat. Avoid applying too much product so that areas of ponding occur. Allow the product to become tack free before applying toppings. If the time between the application of primer and sealant is longer than 4 hours, a recoat of primer is required.

## Mixing

The individual components of EPOXY FLOOR TOP COAT should be thoroughly stirred before the two components are mixed together. The entire contents of the hardener should be poured into the base container and mixed thoroughly for at least 3 minutes. Mix thoroughly for 3 minutes until a uniform mix has been achieved. The use of a heavy-duty slow speed, flameproof or air driven drill fitted with a mixing paddle is desirable.

## Coating

The mixed EPOXY FLOOR TOP COAT should be applied to the prepared surface using a brush or lamb's wool roller. Ensure that the area is completely coated and that 'ponding' of the material does not occur. The second coat may be applied as soon as the first coat has initially dried (typically 24 hours). The time will be dependent on the type of surface and the ambient conditions.

## Packaging:

EPOXY FLOOR TOP COAT is available 15 Ltrs pack.

## Coverage

The coverage rate is 75m2 /Pack/@200micron thickness

## Cleaning

EPOXY FLOOR TOP COAT should be removed from tools and equipment with PROCHEM Solvent immediately after use. Hardened material can only be removed mechanically.

## Limitations

EPOXY FLOOR TOP COAT should not be applied onto surfaces known to or likely to suffer from rising damp or have a relative humidity greater than 75%. EPOXY FLOOR TOP COAT should not be applied to asphalt floors or PVC tiles or sheet. EPOXY FLOOR TOP COAT should not be installed at temperatures below 5oC.

## Storage conditions

The product should be stored in accordance with local 'flammable liquids and liquefied petroleum gas regulations.

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## Shelf life

EPOXY FLOOR TOP COAT have a shelf life of 12 months if kept in a dry store between 5oC and 30OC in the original, unopened packs.

## Health and safety

EPOXY FLOOR TOP COAT, EPOXY PRIMER & CITY PAINTS SOLVENT should not come into contact with skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapors. Wear suitable protective clothing, gloves, and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. Use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately do not induce vomiting.

## Disposal

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