

# Comtech EP100

Solvent free pitch extended epoxy resin protective coating.

## Description:

EP100 is a two component solvent free liquid epoxy resin modified with refined coal tar pitch. It is supplied as a 100% solid. The superior chemical resistance and adhesion of selected epoxy resin, combined with the flexibility and water resistance of coal tar makes EP100 a high build, dense, coating to protect concrete and metal structures against a wide range of aggressive chemicals. The coating will not support bacterial growth, and it forms a smooth glossy black film.

## Typical properties:

Properties	Values
Appearance	Glossy Black
Mixed density	1.5±0.05
Pot life @ 25 °C	60 min
Tack free time @ 25°C	12 Hrs
Initial cure @ 25° C	7 Days
Slant shear bond strength (N/mm)	> 20
Tensile strength (N/mm)	3
Water permeability @ 5 bar pressure	Nil
Over Coating interval @ 25° C	24 Hrs

All values given are subject to 5-10% tolerance.

## Primary uses:

To provide protection to concrete and metal structures such as:

- Lining of tanks
- Pipes & ducting
- Steel pipes & ferrous metals
- Sewerage works (treated) and manholes
- Off shore and marine structures
- Concrete foundations

## Advantages:

- Excellent chemical resistance.
- High build coating, no primer required.
- Excellent long term corrosion protection.
- Abrasion resistant.
- Seam less finish.
- Easy application, can be applied by brush, roller or spray.
- Economical.

## Chemical resistance:

- Marine Bacteria
- Diluted acids and alkalis
- Sewage
- Effluent
- Brine
- Chlorides & sulphates
- Sea water
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## **Direction of use:**

### 1) Surface preparation:

Surface to be coated should be sound, free from laitance, oil, grease and paints.

Grit blasting or mechanical scabbling may be necessary to ensure full removal of cement laitance and deleterious matter. Any blow holes or pin holes should be filled with epoxy putty.

### 2) Mixing instruction:

EP 100 is supplied in reweighed units.

Better to shake the two can component before using.

Pour the reactor onto the base tin and mix the tow component together for 2-3 minutes using a low speed mixing drill with suitable mixing paddle.

Make sure the two component has mixed well and you reach a homogeneous mix.

### 3) Application:

EP 100 can be applied by brush or short hair roller or airless spray.

Apply the mixed material to properly prepared substrate to achieve a uniform coating with minimum wet film thickness of 200 microns and allow to dry for at least 12 hours at 25°C.

## **Coverage:**

5m<sup>2</sup>/Liter/coat will give dry film thickness of 200 micron.

Two coats are recommended.

## **Packaging and storage:**

EP100 is supplied in 20 liter set; All Comtech product should be stored in a dry shaded area, protected from breakage, deterioration and contamination.

The shelf life is up to 12 months in un-opened condition and if stored as per recommendation.

## **Cleaning:**

Clean all equipment with a solvent immediately after use. Hardened materials can be removed mechanically only.

## **Health and safety:**

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuff. Treat splash with water to eyes and skin immediately if accidentally ingested.

WARRANTY STATEMENT: The information given here is based on our knowledge, and we believe it to be true and accurate.

We assume no responsibility for the use of these information, recommendations or suggestions.

Users should always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

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