

## Corrofloor EPG

### Heavy duty epoxy positive grip system

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#### Product Features

**Corrofloor EPG** is a three component, solvent free, tar modified, epoxy resin slurry, specifically formulated to provide excellent abrasion and skid resistance to asphalt, steel or concrete surfaces particularly in high wear areas.

**Corrofloor EPG** is normally applied at thickness between 3 - 5 mm in a single layer, is waterproof, flexible, hard wearing and chemical resistant.

#### Typical Uses

**Corrofloor EPG** is typically used for coating asphalt, steel & concrete substrates requiring a high degree of slip or skid resistance such as heli-pads, ship decks, loading bays, traffic ramps, road and foot bridges.

#### Technical Data

Properties	Test Standards	Typical Values
Density		: 1700 kg/m <sup>3</sup>
Pot life @ 25°C @ 35°C		: 1.5 hours : 45 minutes
Curing time @ 20°C		: foot traffic after 16 hours : vehicle traffic after 3 days
Bond Strength Concrete Steel		: 16 N/mm <sup>2</sup> : 15 N/mm <sup>2</sup>
Abrasion resistance	ASTM C 779	: 60 minutes

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

#### Directions for Use

##### Preparation

###### Concrete

Long term durability and function can only be achieved with good preparation to give a strong adhesive & mechanical bond to the substrate.

Concrete surfaces particularly if new, should be fully cured with a maximum residual relative humidity (RH) of 75%, clean and free from contamination such as dust, oil, grease, organic growth, release agents & curing compounds.

Prepare concrete surfaces preferably by mechanical methods such as angle grinding to remove laitance, curing compounds and other loose materials to provide a mechanical key for Corroprime 30S.

After preparation, fill all blow holes and surface imperfections using **Corromortar ESC** (see separate data sheet) to provide a smooth even surface prior to priming or over coating. Allow 24 hours to cure at 25°C and lightly abrade before over coating.

###### Steel

Mechanically prepare steel surfaces to SA21/2, NACE No2 or SSPC-SP 10 prior to applying **Corrofloor EPG**.

A 50 – 75 micron profile to steel surfaces is desirable to ensure a good mechanical bond to the substrate.

##### Priming

Prior to the application of **Corrofloor EPG**, prime the prepared surface using **Corroprime 30S**.

Thoroughly stir both parts of **Corroprime 30S** together in full for at least 2 – 3 minutes until a homogenous consistency is achieved.

Apply **Corroprime 30S** using a brush or roller to the prepared concrete surface at a rate of 8 - 10 m<sup>2</sup> per litre per coat. Allow the primer to become tack free before applying **Corrofloor EPG**.

Work the primer well into the concrete surface using a stiff brush to give an even, continuous, unbroken coating.

A second priming coat may be required if the substrate is particularly porous.

Re-prime if the primer coat has not been over coated within 18 hours.

Dust and surface contamination must be removed prior to subsequent application of **Corrofloor EPG**.

##### Mixing

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product.

Add the contents of the Part B container to the contents of the Part A container and mechanically mix the components together for 3 – 5 minutes until a homogenous consistency is achieved. **DO NOT UNDER ANY CIRCUMSTANCES PART MIX MATERIALS.**

Empty the mixed resin into a suitable empty container with sufficient volume to accommodate the total yield of the material.

Add the powder component to the mixed resin component and mix using a slow speed drill and paddle or forced action mixer for an additional 2 – 3 minutes, until a uniform colour & consistency is achieved. **ALWAYS ADD THE POWDER TO THE RESIN.**

##### Application

Apply the mixed **Corrofloor EPG** slurry onto the prepared surface and spread out using a squeegee or notched trowel, at

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a theoretical coverage rate of 3 m<sup>2</sup> per pack at 3 mm thickness to 1.9 m<sup>2</sup> per pack at 5 mm thickness.

Scatter or completely blind **Corrofloor Anti Slip Aggregate** into the wet slurry at a theoretical coverage rate of 0.7 – 1 kg per m<sup>2</sup> until the desired anti slip profile is achieved.

Allow the **Corrofloor EPG** to dry and sweep off any excess aggregate that has not bonded.

Expansion joints must be reflected through the **Corrofloor EPG** and preferably sealed with a sealant from the **Corroseal** range.

#### Curing

Allow **Corrofloor EPG** to cure fully for 4 - 7 days before exposing to full mechanical, chemical or environmental conditions.

#### Hot weather conditions

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

#### Cleaning

Clean tools and equipment immediately after use with **Corroclean**.

#### Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendations.

Avoid application if the work area may be subject to the onset of rain or moving water.

Do not part mix under any circumstances.

Chemical spillages should be cleaned quickly in accordance with good house keeping to maximise the life of the product.

Colour fading may occur in areas subject to prolonged UV exposure however the performance of the material will not be affected.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

The product should not be thinned with any type of solvent under any circumstances.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

#### Estimating

**Corrofloor EPG** pack size: 16 kg. Coverage rate approximately 3 m<sup>2</sup> per pack @ 3 mm thickness

**Corromortar ESC** pack size: 8 kg. Coverage rate approximately 0.2 – 0.5 kg per m<sup>2</sup> depending on surface condition  
**Corroprime 30S** pack size: 5 and 20 litres. Coverage rate approximately 8 - 10 m<sup>2</sup> per litre

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

#### Health & Safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

#### Storage

**Corrofloor EPG** has a maximum shelf life of 12 months from the date of manufacture.

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To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.