

Corrofloor ECP

Self smoothing, high build, clear epoxy floor topping

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Product Features

Corrofloor ECP is a solvent free, two component, aliphatic, clear epoxy floor topping designed as a flooring overlay system to enhance and protect either the original substrate, or other coloured **Corrofloor** systems. It has a smooth pouring grade consistency and can be applied at thicknesses from 1 mm to 4 mm in a single layer giving a clear finish, allowing the substrate or decorative finish below to reflect through the **Corrofloor ECP** with a high gloss finish giving a bright aesthetic look that is easily cleaned.

Corrofloor ECP can also be used to encapsulate bespoke graphics or artistic features that personalise the design of the floor, without affecting the underlay colours.

Typical Uses

Corrofloor ECP is typically used on highly trafficked internal floor areas where design, aesthetics and durability are of utmost importance such as communal areas, shops, offices, bars & restaurants, as a clear protective topping directly on to the substrate, stencils, graphics or in combination with other coloured **Corrofloor** coatings.

Technical Data

Properties	Typical Values
Appearance part A	: clear glossy
Appearance part B	: clear glossy
Mix ratio	: 2 : 1
Pot life @ 30°C	: 20 - 30 minute
Initial hardness	: 24 hours
Full cure	: 7 days
Adhesion to epoxy undercoat	: > 1 MPa

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.

Mechanically prepare concrete surfaces preferably by grit or vacuum shot blasting to remove laitance, curing compounds and other loose materials to provide a mechanical key for the subsequent product.

New concrete surfaces can be finished using a wood or plastic float to achieve a slightly textured finish that may reduce the level of additional preparation.

If **Corrofloor SF500** (see separate data sheet) is being used as a base coat prior to the application of **Corrofloor ECP**, fill all blow holes and surface imperfections after surface preparation using **Corromortar ESC** or **Corromortar FC** (see separate data sheet) to provide a smooth even surface, allowing 24 hours to cure at 20°C and lightly abrading before priming & over coating.

Priming

Concrete

Priming is not normally required if applying **Corrofloor ECP** over other **Corrofloor** systems within 36 hours, however please ensure the surface is clean, dry, sound and free from contamination as this will be visible through the finished product.

If applying **Corrofloor ECP** directly to the concrete substrate, thoroughly mix both parts of **Corroprime 30S** primer together in full, using a slow speed drill and paddle for at least 4 – 5 minutes until a homogenous consistency is achieved.

Apply **Corroprime 30S** using a brush or roller to the prepared concrete surface at a theoretical coverage rate of 8 – 10 m² per litre per coat. Allow the primer to become tack free before applying **Corrofloor ECP**.

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 24 hours.

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

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.

Corrofloor ECP is a low viscosity material and as such REQUIRES ONLY VERY SLOW MIXING to avoid inducing air bubbles into the product that may be reflected in the final appearance.

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

Application

Immediately after mixing, pour the mixed **Corrofloor ECP** onto the prepared surface and spread using a squeegee or notched trowel. Allow to level naturally then if required use a spiked roller to release any entrapped air and assist in spreading the material further to achieve a maximum thickness of 4 mm in a single layer.

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DO NOT ALLOW THE MIXED MATERIAL TO STAND IN THE CAN.

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

The application should be carried out in a continuous operation without breaks therefore please ensure sufficient materials, equipment and labour are available to achieve this.

Curing

Allow **Corrofloor ECP** to cure fully for 4 - 7 days before exposing to full 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 recommendation.

Do not part mix under any circumstances.

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.

Although **Corrofloor ECP** is aliphatic, it is not recommended for external applications or places exposed to UV radiation or sunlight.

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

Estimating

Corrofloor ECP pack size: 15 litres. Coverage rate approximately 1 litre per m² @ 1 mm thickness

Corromortar FC pack size: 8 kg. Coverage rate approximately 4 - 5 m² per pack @ 1 mm thickness

Corromortar ESC pack size: 5 kg. Coverage rate approximately 0.2 - 0.5 kg per m² depending on surface condition

Corroprime 30S primer pack size: 5 & 20 litres. Coverage rate approximately 8 - 10 m² per litre

Corrofloor SF500 pack size: 20 litres. Coverage rate approximately 4 - 5 m² per litre @ 200 - 250 microns thickness

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 ECP has a maximum shelf life of 12 months from the date of manufacture.

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.