

Corromortar ESC

Epoxy scratch coat

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Product Features

Corromortar ESC is an economic, hand applied, 2 component, solvent free, epoxy mortar designed as a scrape on scrape off repair material for cracks, pinholes and irregularities in horizontal concrete surfaces. It has a smooth putty consistency allowing it to be applied from feather edge to a maximum thickness of 5 mm, has excellent adhesion to most substrates and reduces consumption of subsequent coatings. It is supplied in pre weighed packs ready for on site mixing and use, giving consistent properties and performance.

Typical Uses

Corromortar ESC is typically used to repair small areas of chipped or damaged concrete and provide an even surface to all floor areas. It is particularly suitable for areas subject to heavy traffic or impact and chemical exposure such as warehouses, chemical process and industrial applications, and is compatible for over-coating with an acrylic, epoxy, polyurethane or polyurea coating from the **Corrofloor range**.

Technical Data

Properties	Test Standards	Typical Values
Appearance A		: off white paste
Appearance B		: black paste
Density mixed		: 1.65 approx
Mix ratio		: 10 : 1
Pot life @ room temperature		: 25 minutes
Initial hardness @ 30°C		: 6 h
Hard dry @ 30°C		: 18 h
Full cure @ 30°C		: 7 days
Compressive Strength @ 7 days	BS 6319 - 2	: 50 MPa

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

Directions for Use

Preparation

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 to remove laitance, curing compounds and other loose materials to provide a mechanical key for the **Corromortar ESC**.

After preparation, remove dust & debris to ensure a clean surface.

Priming

Priming is not normally required however please ensure the substrate is clean, dry, sound and free from contamination.

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.

Mechanically mix the entire contents of the resin components together for at least 2 – 3 minutes until a homogenous consistency is achieved.

DO NOT UNDER ANY CIRCUMSTANCES PART MIX MATERIALS.

Application

Apply the mixed material onto the prepared surface using a squeegee, scraper, trowel or putty knife ensuring the void is completely filled.

Corromortar ESC can be applied from feather edge to a maximum thickness of 5 mm.

Curing

Allow a minimum of 24 hours to cure and lightly abrade before over coating.

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**.

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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.

Additional coating protection should be applied if the product is exposed to chemicals.

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

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

Estimating

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

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

Corromortar ESC 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.