

Corrofloor SS1000

1mm self smoothing, epoxy floor topping

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Product Features

Corrofloor SS1000 is a coloured, three component, self smoothing topping based on epoxy resin. It has a smooth pouring grade consistency that provides a dense, high gloss finish to give a bright aesthetic look that is hygienic and easily cleaned.

Corrofloor SS1000 has excellent impact and chemical resistance, and is applied at 1mm thickness in a single layer.

Typical Uses

Corrofloor SS1000 is suitable for a wide range of industries & applications particularly laboratories, pharmaceutical production and storage areas, food & beverage manufacturing, factories & warehouses and any areas requiring a high level of hygiene and cleanliness.

Technical Data

Properties	Test Standards	Typical Values
Pot life @ 30°C		: 30 minutes
Foot traffic		: 24 hours
Full cure		: 7 days
Compressive strength @ 7 days	BS 6319	: 60 N/mm ²
Flexural strength @ 7 days	BS 6319	: 30 N/mm ²
Adhesion strength @ 7 days to primed concrete	ASTM D4 541	: 1.5 N/mm ²
Chemical resistance	ASTM D 543	: resistance to various chemicals like mild acids, alkalis, oil, grease, etc.

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.

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

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

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

Priming

Concrete

Prior to the application of **Corrofloor SS1000**, 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 m² per litre per coat. Allow the primer to become tack free before applying **Corrofloor SS1000**.

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 SS1000**.

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 1 – 2 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 or aggregate 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

Pour the mixed material onto the prepared surface and spread using a squeegee or notched trowel. Allow to level naturally then use a spiked roller to release entrapped air and assist in spreading the material further to achieve the minimum thickness depending on the grade of **Corrofloor SS1000**.

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

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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. If the entire area cannot be finished in one go, we recommend creating day joints to provide a neat edge to work to with the subsequent application.

Curing

Allow **Corrofloor SS1000** to cure fully for 4 - 7 days before exposing to full mechanical or chemical 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

Corrofloor SS1000 is self smoothing but will not self-level, therefore existing undulations may still be apparent.

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.

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 SS1000 pack size: 15 litres. Coverage rate approximately 1 litre per m² @ 1mm thickness

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

Corromortar ESC pack size: 8 kg. Coverage rate approximately 0.2 – 0.5 kg per m² depending on surface condition

Corroprime 30S pack size: 5 & 20 litres. Coverage rate approximately 8 - 10 m² 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 SS1000 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.