

## Corrofloor CU

### Self leveling and self smoothing, cementitious underlayment

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#### Product Features

**Corrofloor CU** is a pre-mixed and bagged blend of cements, aggregates & special polymers to give a high quality, cementitious, self leveling and self smoothing underlayment, with excellent workability and finishing characteristics for interior floors.

**Corrofloor CU** is easy to use, requiring only the addition of clean water to give a consistent, free flowing material with an application thickness of 3 – 10 mm in a single layer.

#### Typical Uses

**Corrofloor CU** is typically used to provide a high quality, smooth floor finish to concrete or other cementitious substrates, prior to the application of carpet, ceramic and marble tiles, parquet and wood block, vinyl sheet and many other floor finishes.

#### Technical Data

Properties	Test Standards	Typical Values
Appearance		: grey powder
Particle size		: 0 - 0.3 mm
Bulk density		: 1.4 ± 0.1
Pot life		: 25 minutes
Open to light traffic		: 4 - 8 hours
Time before covering (at 3 mm thick)		
Carpet, ceramic tiles		: 1 - 2 days
Vinyl sheeting, rubber		: 2 - 3 days
Parquet		: 3 days
Floor paints		: > 7 days
Bond strength @ 28 days	BS 1881 Part 207	: 1 N/mm <sup>2</sup> ± 0.1
Compressive strength @ 28 days	BS EN 196-1 : 2005	: > 30 N/mm <sup>2</sup>

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.

It is recommended that all cementitious substrates have a maximum penetration of 3 mm when tested using the BRE Screed Test Equipment.

Concrete surfaces particularly if new, should be fully cured with a maximum residual relative humidity (RH) of 75%, and mechanically prepared 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.

Surfaces must be clean and free from contamination such as dust, oil, grease & organic growth prior to application.

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

Thoroughly soak concrete substrates with clean water for at least 1-2 hours, removing standing and excess water prior to priming with **Corrobond AR**.

##### Priming

###### Concrete

Apply a bonding coat comprising 3 parts OPC, 1 part water and 1 part **Corrobond AR** (see separate data sheet) to the pre-soaked concrete surface. Apply the **Corrofloor CU** 'wet on wet' to the bonding coat. DO NOT LET THE BONDING COAT DRY.

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, and the substrate should be re-primed if the primer coat has dried.

##### 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.

Accurately measure 5.5 - 6 litres of drinking quality water and place in a suitable empty container with sufficient volume to accommodate the mixed material.

Slowly add the powder to the water and mix continuously for 4 - 5 minutes using a slow speed drill and paddle or forced action mixer, until a homogenous consistency is achieved.

No additional water should be used as this will change the performance of the mixed material.

##### 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 desired thickness of 3 - 10 mm.

We recommend construction joints be introduced at thresholds and joints induced to give a maximum bay size of 50 m<sup>2</sup>.

Expansion joints must be reflected through the **Corrofloor CU** and preferably sealed with a sealant from the **Corroseal** range after the floor finishes have been installed.

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#### Curing

Under normal conditions no special curing is required for this product, however if the applied area is subject to prevailing winds and high temperatures, we recommend applying one of the **Corrocure** range immediately after initial hardening of the product or removal of any formwork.

The duration for curing will depend on the applied thickness and ambient conditions. For thickness up to 10 mm, we recommend curing for at least 3 – 5 days after initial hardening of the product or removal of any formwork.

Subsequent floor finishes should only be applied when the residual relative humidity (RH) of **Corrofloor CU** has reached 75% or less.

Please consult with Corrotech regarding compatibility of the Corrocure range with the floor finishes to be used.

#### 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.

Use iced water for mixing.

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 & equipment immediately after use with detergent and water.

#### Limitations

**Corrofloor CU** 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.

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

**Corrofloor CU** pack size: 25 kg. Coverage rate approximately 1.6 kg per m<sup>2</sup> @ 1 mm thickness

**Corrobond AR** pack size: 5, 20 & 200 litres. Coverage rate depends on concrete porosity. Approximately 3 - 8 m<sup>2</sup> per litre of diluted solution

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 CU** 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.