

## Corrofloor CFS WR 20/30/40/60

### Water resistant cementitious floor screed

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### Product Features

**Corrofloor CFS WR** is an environmentally friendly, non toxic, cementitious water resistant floor screed with excellent workability and finishing characteristics. Available in four grades 20 N, 30 N, 40 N and 60 N. **Corrofloor CFS WR** is easy to use, requiring only the addition of clean water to give a consistent durable screed, with an application thickness of 10 – 50 mm in a single layer.

### Typical Uses

**Corrofloor CFS WR** is used to provide a cementitious screed on top of structural concrete that can be finished to accurate levels, prior to the application of other internal finishes such as ceramic or marble tiles, parquet and other finishes. It can also be used as a patch repair to make up levels in light traffic areas, and is suitable for internal or external applications.

#### Technical Data

Properties	Test Standards	Typical Values
Appearance		: grey
Water / powder ratio		: 0.14 - 0.16 (5.6 - 6.4 litres of water per 40 kg)
Stiffening Time Initial		: approximately 3 - 4 hours
Final		: approximately 4 - 5 hours
Water absorption		: < 5%
Water Penetration		: < 5mm
Filler material		: Graded sand
Recommended thickness		: 10 - 50 mm per layer
Wet density		: approximately 2000 - 2100 kg/m <sup>3</sup>
Coverage		: 2.2 - 2.5 m <sup>2</sup> @10 mm thick per 40 kg bag
Maximum aggregate size		: 5 mm
Compressive Strength @ 28 days Corrofloor 20N Corrofloor 30N Corrofloor 40N Corrofloor 60N	BS EN 196-1	: 20 N/mm <sup>2</sup> : 30 N/mm <sup>2</sup> : 40 N/mm <sup>2</sup> : 60 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.

Prepare concrete surfaces preferably by mechanical methods to remove laitance, curing compounds and other loose materials to provide a mechanical key for **Corrofloor CFS WR**.

#### Priming

##### Concrete

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

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

If the substrate cannot be pre-soaked with water, we recommend priming with **Corrobond EBA** instead of **Corrobond SBR**.

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

Apply **Corrobond EBA** using a stiff brush, working it well into the dry prepared concrete surface at a rate of 5 – 6 m<sup>2</sup> per pack, then apply **Corrofloor CFS WR** before the **Corrobond EBA** becomes tack free. This is typically 2 - 4 hours, depending on temperature.

#### 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 6 - 6.5 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 **Corrofloor CFS WR** onto the prepared surface. Spread out and tamp or compact using a plastic or wood float to provide a dense topping to a thickness of 10 - 50 mm. Finish with a plastic float, wood float or steel trowel depending on the surface texture required.

If required, subsequent layers can be applied to the first layer after 24 hours. The first layer should be scratch keyed and re-primed to assist with bonding.

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

### Curing

Curing is essential for all cementitious products to prevent possible shrinkage cracks and ensure the performance characteristics of the concrete and product are achieved.

We recommend curing for at least 3 days using **Corrocure AR**, applied to the **Corrofloor CFS WR** immediately after finishing.

### 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

Substrate temperatures should be above 5°C and rising.

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

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 \*

**Corrofloor CFS WR** pack size: 40 kg. Coverage rate approximately 2.2 - 2.5 m<sup>2</sup> @ 10 mm thickness per bag

**Corrobond SBR** pack size: 20 & 200 litres. Coverage rate depends on concrete porosity. Approximately 3 - 7 m<sup>2</sup> per litre of diluted solution

**Corrobond EBA** pack size: 2.5 litres. Coverage rate approximately 5 - 6 m<sup>2</sup> per pack

**Corrocure AR** pack size: 200 litres. Coverage rate approximately 4 - 5 m<sup>2</sup> per litre per coat

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 CFS WR** 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.