

Corrodrycrete 45N /10

Pre-mixed dry concrete

Reference No.	TDS / CR / CDC /10
Issue Date:	February 2020
Revision No.	1

Product Features

Corrodrycrete 45N/10 is a cementitious dryconcrete consisting of OPC, processed aggregates, special polymers & chemical additives to give a high strength, free flowing dry concrete suitable for small volume applications. **Corrodrycrete 45N/10** is non metallic, free from chlorides and is shrinkage compensated with excellent workability to transfer load, whilst developing required compressive strength.

Typical Uses

Corrodrycrete 45N/10 can be used to cast small volume structural elements with steel reinforcement such as bond beams, lintels & columns upto 300mm thickness. It can also be used to cast floors and other areas where a highly flowable material is required, thereby ensuring good compaction around the bars. It can also be used as a heavy duty floor screed and leveling compound from 50 - 300 mm on top of structural concrete.

Technical Data

Properties	Test Standards	Typical Values
Appearance		: Grey powder
Water / powder ratio		: 0.09 - 0.11
Stiffening time:		
Initial		: approx. 3 - 4 hrs
Final		: approx. 4 - 5 hrs
Consistency		: homogeneous cementitious mix
Binder		: Portland cement
Wet density / Yield		: approx. 2000 - 2100 kg/m ³
Maximum aggregate size		: 10 mm
Flexural strength @ 28 days	BS EN 196 Part 1	: 5 N/mm ²
Compressive strength @ 28 days	BS EN 196	: > 45 N/mm ²

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 and 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 **Corrodrycrete 45N/10**.

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 3.6 - 4.4 litres of drinking quality water per bag of part A(powder) and part B(aggregate). In a suitable mixer add both the parts with water to form a homogeneous 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 formwork or apply with suitable trowel for repair work. Spread out and tamp or compact evenly. Good compaction of wet concrete is very important for proper bonding and crack free surface.

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 2 - 3 days, 2 times a day with water or cure the concrete using suitable product from the **Corrocure** range, applied to the **Corrodrycrete 45N/10**.

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.

Corrodrycrete 45N / 10

Pre-mixed dry concrete

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 CCCDrymix for a project specific method statement.

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.

Estimating

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption.

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. No not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrodrycrete 45N/10 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