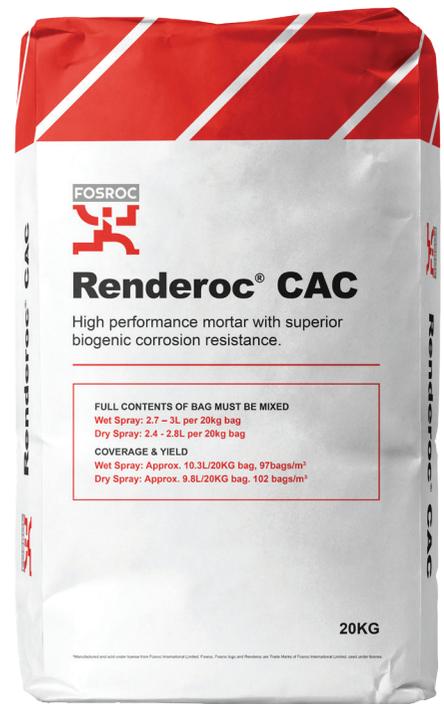




constructive solutions

CALCIUM ALUMINATE CEMENT MORTAR

RENDEROC[®] CAC



A high performance calcium aluminate cement (CAC) mortar with superior biogenic corrosion resistance, designed to withstand the moist conditions of sewer environments. Can be used for new structures or to rehabilitate existing structures.

- Inhibits bacterial activity
- Neutralizes sulfuric acid
- Readily adheres to damp concrete, no primer required
- Long term corrosion protection
- High early strength development to minimise downtime
- Contains no VOC's
- Available in wet and dry spray versions

How does it work?

The properties of Renderoc CAC result from the chemical and mineral phases formed during the hydration process that help to inhibit bacterial activity, drastically reducing the production of sulphuric acid and helping to control microbiologically induced corrosion of concrete (MICC).

The core components of Renderoc CAC are lime (CaO) and alumina (Al₂O₃), including calcium aluminate aggregates, which help to:

- Inhibit bacterial activity – the aluminium ions present in Renderoc CAC kill bacteria that come in to contact with the surface,
- Neutralise sulfuric acid – resulting in higher acid neutralisation capacity compared to OPC,
- Provide long term corrosion protection - Renderoc CAC is a sacrificial surface that dissolves in preference to the substrate at an extremely slow rate as it comes in to contact with organic acids in the sewer environment, when applied and maintained according to directions it can provide protection for up to 50 years, note: exact service life can not be provided.

Product details

Product code	Description	Size	Size	Bags per m ³
FC306062-20KG	FOS RENDEROC CAC WET SPRAY	20KG	10.3L/20kg	97
FC306063-20KG	FOS RENDEROC CAC DRY SPRAY 2.5MM (MTO)	20KG	9.8L/20kg	102
FC306061-20KG	FOS RENDEROC CAC DRY SPRAY 4MM (MTO)	20KG	9.8L/20kg	102

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Typical properties

Compressive Strength (MPa) (AS 1478.2 - 2005)	
6 hours	>20MPa
24 hours	>40MPa
28 days	>70MPa
Modulus of Rupture (Flexural Strength) (MPa) (AS 1012.11 - 2000):	
24 hours	>4.5MPa
28 days	>8.5MPa
Indirect Tensile strength (AS 1012.10 - 2000):	
28 days	>3.5MPa
Dimensional Change (Drying shrinkage) (AS 1478.2 - 2005):	
56 days	<600 microstrains

Chemical composition of main constituents

Substances	Typical % by Weight
Al ₂ O ₃	39-44
CaO	35-40
SiO ₂	2-7
Fe ₂ O ₃	9-15

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