

# CorroBlock

Patch mortar for repair of spalled concrete caused by corrosion of reinforcing bars

## Description

A blend of quartz aggregate, hydraulic binders, pozzulans, corrosion inhibitors, crystalline waterproofing additive, wetting agents and polymers.

## Uses

**CorroBlock** produces a repair mortar by addition of water only. The corrosion inhibition characteristics are promoted by the hydroxide binding characteristics of secondary cementitious materials and the prevention of corrosion promoting ions being carried through the mortar by water.

**CorroBlock** is especially useful for the repair of structures subject to chlorides or carbonation.

## Application

Cavities must be prepared in normal good practise for spalled concrete which includes chipping back of all loose or delaminated material beyond the corroded areas of the reinforcing bars. Clean off the reinforcing bars to bright steel.

The prepared cavities should then be wetted to a saturated but surface dry condition. Prepare the **P3 Primer** in according to the Samson **P3 Primer** datasheet and prepare a mortar of the **CorroBlock** as described below.

Brush a thin layer of mixed **P3 Primer** slurry (0.5 – 1 mm thick) onto the reinforcing bar and the entire surface area of the cavity.

Insert the **CorroBlock** mortar into the cavity whilst the **P3 Primer** is still wet. Slightly overfill the cavity and when the mortar is semi-set cut back the excess to be flush with the concrete being repaired.

Trowel the **CorroBlock** to match the finish of the concrete being repaired.

## Curing

Protect the repair from direct wind or sun and allow to air-cure. Do NOT water-cure, water-curing will prevent coalescence of the polymers in **CorroBlock**.

## Mixing

The **CorroBlock** mortar should be prepared by adding sufficient water to produce an easily trowelable mortar of a consistency suitable for the application.

## Physical properties

**Strength** - Typical compressive strength for cured **CorroBlock** is 30 to 40MPa at 28 days. The polymers lower the elastic modulus which should be typically less than that of the concrete being repaired.

**Temperature** - **CorroBlock** may be used where in-service temperatures are within those tolerated by normal concrete.

## Packaging

**CorroBlock** is packaged in 25kg polylined, woven bags.

## Shelf Life

The shelf life of **CorroBlock** is 9 months, properly stored in cool, dry conditions. If in doubt submit a sample to Samson Technologies c.c. for testing and approval before use.



## Samson Technologies cc

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## Warranty

Samson warrants that its products will perform as declared in its literature and this warranty extends only to the replacement of any of its products that may be proven to be defective.

## Disclaimer

Samson Technologies retains the right to change any information in our literature, at any time, without prior notification.