



# K11 CRG

## CRYSTALLINE, NON-SHRINK REPAIR GROUT FOR SURFACE REPAIR



ECO FRIENDLY



LOW CARBON  
FOOTPRINT



CRYSTALLINE  
TECHNOLOGY

### DESCRIPTION

Davco K11 CRG (Crystalline Repair Grout) is a specially formulated cementitious non-shrink grout that uses the latest crystalline technology to waterproof the repaired surface. Its reactive chemical will react with water, penetrating the surface to form crystals in the concrete tracts to impede the passage of water seepage. Davco K11 CRG requires only on site addition of water to produce a non-shrink repair grout that is non-corrosive, non-oxidising and free of chlorides and nitrates.

### USES

Davco K11 CRG is primarily used for Floor and Vertical wall repair of leaking areas in concrete basements.

### ADVANTAGES

- Non-shrinking.
- High early compressive and flexural strength.
- Achieve strong non-corrosive bonding to steel and concrete.
- Chlorides and iron free.
- Pre-mixed to eliminate site variations and errors.

### TECHNICAL DATA

- Grey ready-to-wet powder.
- Active ingredients including hydraulic binders and synthetic fibres. Chloride and metal particle free.
- Particle size : 0 - 2 mm
- Apparent powder density : 1.36
- 1/2 Abrams slump cone : 1 - 5 cm measurements

### Tensile bending strength\*

2 days	: 7 MPa
7 days	: 10 MPa
28 days	: 12 MPa

\* Tests carried out on 4 x 4 x 16 samples, kept at 20°C and 90% humidity. Average laboratory values provided as a general guide.

### Compressive strength\*

2 days	: 35 MPa
7 days	: 45 MPa
28 days	: 65 MPa

\* Tests carried out on 4 x 4 x 16 samples, kept at 20°C and 90% humidity. Average laboratory values provided as a general guide.

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.



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## INSTRUCTIONS

### Substrate preparation

Remove loose and damaged concrete and laitance using a point tools, chisel, or planing tool in order to obtain a clean, rough surface.

Clear out concrete around corroded rebars in order to create space for inserting the product behind and around them.

The boundaries of the surface to be repaired must be clearly defined.

The substrate must be free of all traces of grease and oil.

Brush, scrape or sandblast corroded rebars in order to remove non-adherent rust.

Dust off all surfaces to be repaired.

Soak the substrate prior to application.

If rebars are to be covered with less than 10mm of mortar, they should be passivated using either - a slurry mix of Davco K11 CRG and Lanko 751 or Lanko 760.

### Product preparation

The mortar is made by mixing Davco K11 CRG with water.

Machine or hand-mix for 3 minutes minimum until evenly distributed.

Workable life after mixing: approximately 45minutes at 20°C.

No water must be added during application.

## Application

Apply a first batch of Davco K11 CRG with a stainless steel trowel, pressing firmly to ensure bonding.

Apply additional mortar to obtain the desired overall thickness.

Trowel or float the repaired surface for a smooth finish.

For large surfaces, the mortar may be applied by machine spray (wet or dry process).

## Dosage

Davco K11 CRG	25 kg
Water	3.5 - 4 Litres

## Curing

Immediately after finishing, exposed area should be thoroughly cured with wet hessian or curing compound.

## PACKAGING

Davco K11 CRG is available in 25 kg bag.

## SHELF LIFE

Shelf life of up to 12 months from the date of manufacture when stored in a dry place free from moisture contact.

## HEALTH & SAFETY

Davco K11 CRG is non-hazardous. In case of eye contact, wash with plenty of water. If irritation persists, seek immediate medical attention. Refer to safety data sheet.

### Disclaimer

The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subjected to changes without prior notice. Before application, customers and users are requested to check that they have the latest version of this document from our website [www.parexgroup.com.sg](http://www.parexgroup.com.sg)



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