



712 RAPIDEX

RAPID HARDENING NON SHRINKING FIBRE MORTAR FOR ROADS AND INDUSTRIAL FLOORS



ECO FRIENDLY



HIGH STRENGTH



NON SHRINK

DESCRIPTION

Davco 712 RAPIDEX is a rapid hardening fibre mortar suitable for the repairs of industrial floors and roads

USES

- Sealing of sight holes, manhole covers, trapdoor frames, telecom hatches, street furniture, signposts.
- Repairs to industrial flooring, concrete walkways and roads, pot-holes, undercuts.
- Bed-face for high-traffic paving and road surfaces.
- Bridge bearing calking.
- Sealing road joints.

CHARACTERISTICS

- Fast hardening.
- High mechanical strength.
- Excellent resistance to sea water, sulphated waters, de-icing salt and oil.
- Easy application, even at low temperatures.

SPECIFICATIONS

- Grey ready-to-wet powder.
- Hydraulic binder active ingredients.
- Chloride and metal particle free.
- Particle size: 0 - 4 mm.
- Powder density: 1.4.

SURFACE PREPARATION

For use on rigid substrates only (cement stabilised gravel, concrete). Substrates must be clean, sound, and free of any loose or flaking parts.

If necessary, the surface should be roughened and levelled prior to application.

Dampen as required.

To ensure good bonding, apply a primer or slurry coat.

TECHNICAL DATA

	2 hr	3 hr	1 day	28 days
• Flexural Strength ASTM C348:2002 (N/mm ²)	7.3	8.5	9.1	11.0
• Compressive Strength ASTM C349:2002 (N/mm ²)	26	35	37.8	44.9
• Taber Abrasion Resistance ASTM 04060:2001 Avg Weight Loss			0.44	
• Skid Resistance SS485:2000			76 (BPN)	
• Tensile Pull Out Strength BS EN 1015-12:2000			2.1 N/mm ²	
• Setting Time Final set @ 25°C			< 30 mins	

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.

APPLICATION

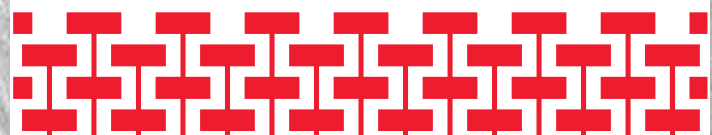
Mortar preparation

- The mortar is obtained by mixing Davco 712 RAPIDEX with 3.3 litres to 3.75 litres of potable water.
- Machine or hand-mix to a plastic consistency.
- Mixing time : 3 minutes minimum.
- Workable life after mixing : 20 minutes at 20°C.

Micro-concrete preparation

- For thicknesses over 30mm, Davco 712 RAPIDEX should be used as a micro concrete.
- Micro-concrete is made up by adding 10-20 litres of clean, damp 3/8 or 5/10 aggregate for each 25kg bag of Davco 712 RAPIDEX. Site trials should be conducted to determine the proper aggregate ratio

BUILDING TRUST





712 RAPIDEX

Sealing a sight hole

- Clear out using sharp vertical cuts.
- Clear down to the capping or to a solid rim (removing old bed face).
- Remove dust and thoroughly rinse the cleared-out area. Ensure that the surface is left damp.
- Remove any remaining dirt and loose particles.
- Remove residual water.
- Insert pre-prepared formwork.
- Lay bed face, position frame.
- Block by filling ring with Davco 712 RAPIDEX. Press down firmly.
- Level off Davco 712 RAPIDEX at road level.
- Smooth grain of bearing surface. Float.
- It is possible to leave a space of 3cm approximately and to finish with Davco Resurfacer once the mortar has hardened.

Repairs to industrial floors and concrete walkways

- A preliminary study must be carried out on cracked substrates.
- Mark the boundaries of the area to be repaired, preferably by sawing.
- Remove damaged material to leave a thickness of 2cm with clean ridges. Loose particles must be raked out and all traces of grease and oil removed.
- Dust and rinse thoroughly.
- Fill the cleared area with water and soak for several hours.
- Remove residual water.
- Make up a micro-concrete with Davco 712 RAPIDEX.
- Apply the micro-concrete and float with a trowel.
- Smooth the surface of the micro-concrete. The mortar surface must be cured with appropriate curing compound to prevent or excessive moisture loss and surface from cracking.

DOSAGE / YIELD

Pure mortar

Davco 712 RAPIDEX	25kg
Water	3.3 litres
Workable volume	13 litres

Micro-concrete

Davco 712 RAPIDEX	1 bag of 25kg
3/8 Aggregate	10 litres 20 litres
Water	4.3 litres 5.3 litres
Workable volume	20 litres 25 litres

PACKAGING

25kg long-storage bag.

SHELF LIFE

6 months from date of manufacture if stored in unopened original packing in dry, frost-free conditions.

RECOMMENDATIONS

- Temperature range for use : 0°C to 35°C.
- Do not apply to a frozen or thawing substrate. In hot temperatures Davco 712 RAPIDEX should be mixed with cold water.
- Surfaces must be protected from air with appropriate curing compound once setting starts.
- Do not mix with other hydraulic binders.
- Sand and admixtures must not be added.
- 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.sika.com.sg

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