

SHRINKAGE CONTROLLED, POLYMER MODIFIED REPAIR MORTAR

Description

REPCON CS is a polymer-modified, shrinkage compensated mortar. For interior and exterior use without corroding substances. Good processability of the flexible, pasty and stable mortar.

Uses

For repair work of ruptures and defects in walls and ceiling made of concrete and precast concrete. For the preparation of concave mouldings

Advantages

- **Cost effective** - shrinkage control enables repairs to be completed, right first time". Very low rebound is an additional cost benefit
- **Enhanced durability** - works in tandem with extremely low permeability to prolong effective working life
- **Compatibility** - aligns performance closer than ever before, to that of host concrete
- **User friendly** - specifically developed to provide an easy to-apply product, suitable for local conditions
- **Definable performance** - positive benefits are easily demonstrated via a single, simple measurement.
- Resistant to Alkali Silica Reaction or Alkali Aggregate Reaction.

Technical Data

The following typical results were obtained at a water:powder ratio of 0.15.

Basis	Cemented mortar
Colour	Grey
Bulk density	1.5 kg/m ³
Water Powder Ratio	0.15 to 0.16
Compressive strength (ASTM C109)	
1 day	Approx 10N/mm ²
28 days	Approx 25N/mm ²
Fresh weight density	Approx 2.10 gm/cc

Application Methodology

Surface Preparation

The surface must be free from dust, dirt or bond breaking agents. Loose edge strips have to be removed. If necessary the surface is to be sand-blasted. The surface is to be moistened to a saturated dry surface.

Instructions For Use

Tap water is filled into a mixing vessel. Stirring the REPCON CS mixture into the vessel a pasty, stable and flexible mass develops. The mortar can also be prepared using compulsory mixers. The processing time is approx. 30 minutes at + 18 to 20 °C. Higher temperatures shorten and lower temperatures increases the working and curing time. The processing temperature must be between 5°C and 25°C.

The mortar application is to be carried out according to approved plastering techniques using a trowel or a smoother. The thickness of layer should not exceed 20 mm. Voids and dry spots are to be primed by a scrape filler. The surface is to be roughened.

The top levelling layer may be rubbed down with a felt or sponge board.

Important Note

Areas not to be treated are to be protected from the influences of REPCON CS. Low chromate level according to TRGS 613 REPCON CS is irritant according to Hazmat regulations (GefStoffV).

Please adhere to the valid EC Materials Safety Data Sheet (MSDS).

Packaging

40 kg bag

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Storage and Shelf Life

REPCON CS has a shelf life of 6 months if kept in a dry environment, in its original packing. If stored in conditions of high temperature and/or humidity, the shelf life may be reduced to as little as 4 months.

Limitations

REPCON CS should not be used when the ambient temperature is below 5°C and falling.

REPCON CS should not be part mixed, nor part bags used.

REPCON CS should not be exposed to running water either during application or prior to final set.

Fire

REPCON CS, is non-flammable and thus presents no fire hazard.

For further information, please refer to the Product Material Safety Data Sheet for REPCON CS.

Safety precautions

REPCON CS contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces). The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Note

All Technical Data Sheets of FIRST CHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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