



Emckrete RS

Rapid Setting Shrinkage Compensated Grout

Product Properties

- One-component, polymer modified, chloride free, rapid set
- Excellent abrasion resistance and bond strength to concrete
- High early strength to 25N/mm² in two hours
- Shrinkage compensated to enhance durability
- Cost effective in reducing down time
- Ideal application for fast tract projects

Areas of Application

- Rapid setting structural repair mortar in various building, civil and mechanical installation such as floor topping, manhole repair, base plate or anchor fixing, joint grouting to precast panel

Application

Surface Preparatino

The substrate must be clean and free from all loose particles, dust, oil and other contaminants. A substrate pull-off strength ≥ 1.5 N/mm² is required. The substrate must have sufficient roughness, e.g. sound aggregate should be visible.

Before application of Emckrete RS, the substrate should be pre-wetted to saturation but surface dry condition. Very absorbent substrates have to pre-moistened several times if necessary. Where a bonding primer is used, Emckrete RS should then be applied "fresh-on-fresh" to the bond coat.

Mixing

Emckrete RS is a single-component mortar which is mixed with water. The dry powder is slowly added to water and mixed thoroughly until a homogenous, lump-free consistency is achieved. Forced action mixers are recommended. Mix promptly for 2 - 3 minutes till a homogenous consistency is obtained. Mixing by hand is not permitted.

For a 25 kg bag of Emckrete RS, approximately 3.4 – 3.8 litres of water is required. As with all cementitious products, the quantity of water added may be varied slightly.

Application

Emckrete RS can either be applied by hand with floats, poured or pumped. For large volume application where thickness is in excess of 50 mm, aggregate addition is recommended at up to a mix ratio by weight ratio of 1 part aggregate to 2 parts Emckrete RS.

Aggregate shall be cleaned and of single size range of 10 mm range. Flowability of grout with aggregate loading will be marginally reduced.

Emckrete RS should not be applied at temperature below + 5 °C. Material shall be placed immediately after mixing to optimise workability.

Curing

Care must be taken to ensure Emckrete RS is suitability protected to prevent it from drying out too rapidly, especially from the effects of direct sun and wind. As with all cementitious materials rain or similar can cause slight surface blemishes, before application of further coatings, loose particles must be removed.



Technical Data for Emcekrete RS

(all technical values relate to temperature of + 23 °C and 80% relative humidity)

Cured mortar specific gravity	2.30 kg/dm ³					
Strength Data N/mm ²	2 hrs	4 hrs	18 hrs	1 day	7 days	28 days
Compressive Strength						
Flow	25	30	39	42	55	60
Pour	30	33	43	48	56	62
Linear Shrinkage	No cracks (Coutinho ring method)					
Mixing Ratio	25 kg Emcekrete RS when mixed with 3.4 to 3.8 litres of water yields approx. 12 litres of grout.					
Consistency,	Flow Grade			Pour Grade		
Water Dosage, part by weight	15%			14%		
BS Cone Flow Spread	> 26 cm			> 24 cm		
Minimum Application Conditions	> + 5 °C substrate and ambient temperature					
Packaging	20 kg / 25 kg bag					
Storage	Store cool and dry. Can be stored in original sealed bags for at least 6 months.					
Disposal	In the interest of our environment please empty all packs completely and dispose of in accordance with statutory regulations.					

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition: 01/2010/Sin. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.