



BE SURE. BUILD SURE.

# Zentrifix RS

## Rapid setting concrete repair mortar

### Product Properties

- One-component, polymer modified, chloride free and rapid set mortar
- Hand application by trowel or float
- Excellent abrasion resistance and bond strength to concrete
- Rapid setting to 20 N/mm<sup>2</sup> in two hours
- Shrinkage compensated to enhance durability in weather
- Cost effective in reducing down time
- Ideal application and hardening times
- Form part of the Zentrifix concrete repair system (like Zentrifix KMH M)

### Areas of Application

- Rapid setting structural repair mortar in various building, civil and mechanical installations such as floor topping, manhole repair, base plate or anchor fixing

### Application

#### Surface Preparation

The surface must be clean and free from all loose particles, dust, oil and other contaminants. A substrate pull-off strength  $\geq 1.5\text{N/mm}^2$  is required. The substrate must have sufficient roughness, e.g. sound aggregates should be visible.

#### Manual application

Before application of Zentrifix RS, a bonding coat should be brushed into the pre-wetted surface. The surface should be moist but not saturated with water. Very absorbent substrates have to be pre-moistened several times if necessary. The high build repair mortar, Zentrifix RS should then be applied "fresh-on-fresh" to the bond coat by trowel or float.

The bond coat can be either Zentrifix KMH M or a slurry of mortar.

#### Mixing

Zentrifix RS is a single-component mortar which is mixed with water. The dry powder is slowly added to water and mixed thoroughly until a homogeneous, lump-free mortar is achieved. Forced action mixers are recommended. Mix promptly for 1-2 minutes till a homogenous consistency is obtained. Mixing by hand is not permitted. Use full pack-sizes only.

#### Mixing Ratio

For a 25 kg bag of Zentrifix RS, approximately 5.5 to 6.0 litres of water is required. As with all cementitious products, the quantity of water added may be varied slightly.

#### Application

Zentrifix RS can either be applied by hand with floats or trowels.

For large volume applications where thickness excess 50 mm, aggregate addition is recommended at weight ratio of 1:2 to Zentrifix RS. Aggregate shall be cleaned and size range of 10 to 20mm. Zentrifix RS should not be applied at temperatures below +5°C (air and substrate) or above 40°C.

#### Curing

Care must be taken to ensure Zentrifix RS is suitably 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.

#### General

Coverage depends on texture and porosity of the substrate. To determine this exactly, a trial area should be laid and coverage noted.



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### Technical Data for Zentrifix RS

Characteristic	Unit	Value*	Comments
Fresh Mortar Density	kg/dm <sup>3</sup>	~1.6	
Crack-bridging (static)	mm	~1	at 2 mm layer thickness
Crack-bridging (dynamic)	mm	0.3	at 2 mm layer thickness
Full Resistance to Water Pressure	days	7	
Diffusion Resistance against Water Vapour	m	1.1	at 2,000 µ dry film thickness
Diffusion Resistance against Carbon Dioxide	m	>500	at 2,000 µ dry film thickness
Water Dosage	litres	5.5 – 6.0	per 25 kg bag
Coverage (fresh mortar)	g/m <sup>2</sup> kg/m <sup>2</sup> /mm	600 – 800 ~1.6	scratch coat coating
Pot Life	minutes	45 30 20	at + 8°C at +20°C at +30°C
Layer Thickness	mm	1 2 4	minimum layer thickness per work-step maximum layer thickness per work-step total layer thickness
Workability	mm	200 ± 20	Drop Table method-5 drop spread
Minimum Application Conditions	°C	>+5	substrate & ambient temperature

### Product Characteristics for Zentrifix RS

Delivery	25 kg bag
Storage	Can be stored in shaded, cool and dry conditions for <b>6 months</b> in original unopened packs.
Disposal	In the interest of the environment, please empty all bags completely & in accordance with local regulations.

\* All values have been determined at +25 °C and 60 % relative humidity.

**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 10/00.** 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.