Basilisk-Contracting BV
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Product Data Sheet:
Basilisk Repair Mortar MR3

Product Description

Basilisk Repair Mortar MR3 is a one-component ready-mix cementitious based mortar for concrete repair, meeting the requirements of Class R3 of the European Standard EN 1504-3. In addition to these requirements Basilisk Repair Mortar MR3 has an integrated autonomous crack healing capability. Furthermore the mortar is designed to have ductile properties and a strong adhesive bond.

Basilisk Repair Mortar characteristics

- Low shrinkage
- Strong adhesive bonding
- Ductile behavior (high deformation capacity and low E-modulus)
- Fine-meshed controlled crack behavior
- Self-healing properties

Suitable repair methods (as defined in EN 1504-3)

3.1 Hand applied mortar
3.3 Spraying concrete or mortar
7.1 Increasing cover to reinforcement with additional cementitious mortar or concrete
7.2 Replacing contaminated or carbonated concrete

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063-CPR-101885/01

EN 1504-3

Concrete repair product for technical repair
based on hydraulic cement

Compressive strength	Class R3
Chloride ion content	≤ 0,05 %
Adhesive Bond	≥ 1,5 MPa
Carbonation resistance	Passes
Thermal compatibility part 1	NPD
Capillary absorption	NPD
Dangerous substances	Comply with 5.4
Reaction to fire	Class A1

Product information

Chemical Base	Portland cement, limestone powder, fly ash, biodegradable polymeric mineral precursor compound, bio-based enzymatic catalyst and selected aggregates and additives.
Packaging	15 kg bag.
Appearance and color	Grey powder.
Shelf life	12 months after production date as specified on packaging.
Storage conditions	Store properly in undamaged original sealed packaging in dry cool conditions.
Mixing	Mix Basilisk Repair Mortar MR3 mechanically until a homogenous mix is obtained. Mixing time depends on type of mixer: approximately 3 minutes. Never mix less than a full bag.
Water dosage	3.8 - 4.2 L / 15 kg. Use tap water.
Workable time	≥ 30 minutes @ 20 °C.

Technical information

Property	**Test method**		**Value**	
Maximum grain size	EN 12192-1		2,0	mm
Compressive strength	EN 12190	7 days	17,6	MPa
		28 days	36,7	MPa
Density	EN 12190	7 days	1862	kg/m³
		28 days	1867	kg/m³
Flexural strength	EN 12190	7 days	~ 6	MPa
		28 days	~ 7	MPa
Stiffening time	EN 13294	1 MPa	120	min
		4 MPa	285	min
Workability	EN 13395-1	T1 (10±5 min)	149	mm
		T2 (30±5 min)	110	mm
Air content	EN 12350-7		4,6	%
Chloride ion content	EN 1015-17		0,047	%
Adhesive bond	EN 1542		2,37	MPa
Carbonation resistance	EN 13295		0,5	mm
Elastic Modulus	EN 13412		11,9	GPa
Thermal compatibility Part 1	EN 13687-1		NPD	MPa
Capillary Absorption	EN 13057		NPD	
Water dosage			3,8 – 4,2	l/15kg
Layer thickness			40	mm max.

Additional information

For more detailed information regarding safety aspects and application instructions please advise the MR3 Material Safety Data Sheet and MR3 Application instructions. These are available on our website or on request.