



CEMENT ALL®

Multipurpose Repair Mortar

high-strength, multipurpose, unique



Highlights:

- **Fast-Setting**
workable for 15 minutes
ready for stress in 1 hour
curing only with water
- **High-Strength**
in 1 hour already 20,0 N/mm²
- **Non-Shrink**
crack resistant
- **Durable**
under extreme conditions
frost/deicer resistant
- **Sulfate Resistant**
resist against many chemical attacks
- **Excellent Bond**
directly - without bonding compound
- **Multipurpose**
for repairs and new construction
horizontally and vertically
- **Installation Thickness**
"0" - 100 mm
indoors and outdoors
- **Improved Shelf-Life**

PRODUCT NAME
Rapid Set® CEMENT ALL®
Multipurpose Repair Mortar

PRODUCT DESCRIPTION
CEMENT ALL is a high quality, easy to process, mineral multipurpose repair mortar that is ideal where rapid strength, durability and low shrinkage are desired. CEMENT ALL can be applied in thickness from featheredge to 100 mm. Initial set after 15 minutes, ready for stress in 1 hour.

FIELDS OF APPLICATION
CEMENT ALL is a multipurpose product qualified for general concrete repair, doweling and anchoring, injection, industrial grouting, formed work and highway repair. Indoors and outdoors, also in wet areas.

COMPOSITION
CEMENT ALL is a high-performance blend of Rapid Set® Cement and special mineral aggregates. CEMENT ALL is non-metallic, without chlorides. CEMENT ALL is similar in appearance to Portland cement repair materials and may be applied using similar methods.

COLOR [light grey]
The final color and surface appearance of CEMENT ALL may vary due to application techniques and environmental conditions.

INSTALLATION THICKNESS
Qualified for installation thickness from featheredge to 100 mm. For higher installation thickness the use of Rapid Set® CONCRETE MIX or Rapid Set® MORTAR MIX is recommended. For application as wearing layer, the placing of test areas is recommended.

PROCESSING
PREPARATION OF SUB-BASE
Clean sub-base from loose debris, cement slurry, dust, acids, oils and greases. For permabond compound the surface must be free of cracks, even, rough and openpore. The bond strength values required in the technical guidelines have to be observed (the value must not be less than 1.0 N/mm²). Before the application, pre-wet the sub-base thoroughly. In case of highly absorbent sub-bases, this process may have to be repeated several times.* The formation of a water film or puddles has to be avoided.

*If necessary, a primer on acrylic basis can be integrated.



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TECHNICAL DATA at +20°C	
Color	light grey
Grain size	0 - 1 mm
Consumption	2,0 kg/m ² /mm
Standard layer thickness - floor - ceiling/overhead - wall <small>*in the first working step depending on the chosen consistency</small>	10 - 100 mm 5 - 10 mm* 5 - 15 mm*
Setting time Referring to DIN EN 196-3 Test report No. 0-54/0696-A1/12	initial set: 15 min. final set: 35 min.
Ready for traffic	after 60 min.
Readiness for covering <small>The readiness is independent of the layer thickness and is influenced by the ambient temperature and air humidity. It is generally recommended to check the residual moisture by a suitable measurement.</small>	after 2 hours vapor-permeable coverings (e.g. tiles, vapor-permeable paints) after 16 hours diffusion-proof coverings (e.g. parquet, bitumen waterproofing)
Compressive strength DIN EN 1015-11 Test report No. 0-54/0696-A1/12	after 60 min. > 20,0 N/mm ² after 180 min. > 31,0 N/mm ² after 7 days > 41,0 N/mm ² after 28 days > 62,0 N/mm ²
Flexural strength DIN EN 1015-11 Test report no. 0-54/0696-A1/12	after 60 min. > 6,0 N/mm ² after 24 hours > 8,0 N/mm ² after 7 days > 10,0 N/mm ² after 28 days > 11,0 N/mm ²
Tensile strength DIN EN 1542 Test report no. 0-54/1171-A/12	in middle 2,1 N/mm ² demands fulfilled <input checked="" type="checkbox"/>
Static modulus of elasticity DIN EN 13412 Test report no. 05-54/0696-A2/12	approx. 31.700 N/mm ² demands fulfilled <input checked="" type="checkbox"/>
Sulfate resistance Test acc. Wittekindt Test report no. 05-54/0696-A2/12	demands fulfilled <input checked="" type="checkbox"/>
Penetration test, penetration of water-endangering substances DAfStb-guideline	penetration depth in middle 16,0 mm demands fulfilled <input checked="" type="checkbox"/>
Frost/deicer test (CDF) BWA-guideline frost test Test report no. 0-54/0696-A3/12	demands fulfilled <input checked="" type="checkbox"/>
Chloride ion content DIN EN 1015-17 Test report no. 0-54/1171-C/12	in middle 0,009 demands fulfilled <input checked="" type="checkbox"/>

MIXING

The use of pan type mixer or qualified stirrer is recommended. Organize work so that all personnel and equipment / tools are in place before mixing. Use clean water for mixing. CEMENT ALL is mixed with 3,0 l to 4,75 l water per 25 kg bag. Use less water to achieve higher strength values. Do not exceed the maximum water admixture of 4,75 l per 25 bag. For increased fluidity and workability use Rapid Set® FLOW CONTROL® plasticizing admixture or adequate. Place water into the mixing

container and add CEMENT ALL while the mixer / stirrer is running. To achieve a uniform consistency mix for 1 to 3 minutes. DO NOT re-temper mixed material.

PROCESSING

CEMENT ALL may be processed using traditional methods. The final finish should be applied as soon as possible. CEMENT ALL may be troweled, floated or textured. Apply in one complete layer, i.e. not in several layers, and as uniformly as possible. Do not apply on frozen sub-base. When compacting, avoid the entry of air voids. To extend working time use Rapid Set® SET CONTROL® set retarding admixture or adequate.

CURING

Begin water curing as soon as the surface has lost its moisture. Keep exposed surfaces wet for a minimum of 1 hour until the product has achieved sufficient strength. When experiencing extended setting times, due to cold temperature or the use of a retarder, longer cure times may be required.

PROCESSING TEMPERATURE

Do not apply CEMENT ALL at sub-base or environmental temperature below +5°C. Temperatures > +20°C will reduce the working time. Temperatures < +20°C may decrease the rate of strength gain.

STORAGE

Dry, like cement.
Shelf-life approx. 12 months.

HINTS

These products contain cement and have an alkaline reaction with moisture/water. Therefore protect hands and eyes. In case of contact with eyes consult a doctor. Our recommendations for application technique are based on our experiences. It is recommended to adapt processing and material quantities to the given local conditions and we refer in this context to our general terms of sale and delivery.

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Per November 2018

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