



CTS Rapid Set Cement All— DATASHEET

Rapid Setting, High Strength, Multi Purpose, Non-Shrink Grout

PRODUCT DESCRIPTION:

When mixed with water CTS Rapid Set CEMENT ALL produces a workable, high quality repair material that is ideal where rapid strength gain, high durability and low shrinkage are desired. Apply CTS Rapid Set CEMENT ALL in thicknesses from featheredge to 100mm. Durable in wet environments. **SETS IN 15 MINUTES & IS READY FOR TRAFFIC IN 1-HOUR.** One 25kg bag of CTS Rapid Set CEMENT ALL yields approximately 0.015m³.

USES:

CTS Rapid Set CEMENT ALL is a multipurpose product that can be used for general concrete repair, doweling and anchoring, industrial grouting, formed work, airport projects, and highway repairs.

COMPOSITION:

CTS Rapid Set CEMENT ALL is a high performance blend of CTS Rapid Set Cement and specialty sand.

CTS Rapid Set CEMENT ALL is non-metallic and no chlorides are added. CTS Rapid Set CEMENT ALL is similar in appearance to Portland cement repair materials and may be applied using similar methods.

COLOR: [Light Grey]

The final colour of CTS Rapid SET CEMENT ALL may vary due to application techniques and environmental conditions.

LIMITATIONS:

Not intended for applications over 100mm in thickness, for thicker sections use CTS Rapid Set CONCRETE MIX or CTS Rapid Set MORTAR MIX. For overlay applications at least one test section should be prepared to evaluate the suitability of the materials and procedures.

TECHNICAL DATA:

Set Time:

ASTM C-191(Mod.) at 21°C
Initial Set 15-minutes
Final Set 35-minutes

Compressive Strength:

ASTM C-109 Mod.

Age:

1-hour* 21MPa
3-hour 31MPa
7-day 41MPa
28-day 62MPa

Slant Shear:

ASTM C-882 Mod.
1-day 10MPa
28-day 18MPa

* = After Final Set

Fresh, Ontime, Consistent, Controlled, Concrete

Volumetric Concrete Australia

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Using CEMENT ALL

SURFACE PREPARATION:

For repairs, surfaces shall be clean, sound and free from any materials that may inhibit bond such as oil, asphalt, curing compounds, acids, dirt and loose debris. Roughen surfaces and remove all unsound concrete. Immediately prior to placement the repair surfaces shall be thoroughly saturated with no free water.

MIXING:

The use of a power driven mechanical mixer, such as a mortar mixer or a drill mounted mixer, is recommended. Organize work so that all personnel and equipment are in place before mixing. Use clean Potable water. CTS Rapid Set Cement ALL may be mixed using 2.8 to 4.7 litres of water per 25kg bag. Use less water to achieve higher strengths. Do NOT exceed 4.7 litres of water per bag. For increased fluidity and workability use CTS Rapid Set FLOW CONTROL plasticizing admixture from the CTS Concrete Pharmacy. Place the desired quantity of mix water into the mixing container. While the mixer is running add CTS Rapid Set Cement ALL. Mix for the minimum amount of time required to achieve a lump-free, uniform consistency (usually 1 to 3 minutes). Do NOT re-temper.

PLACEMENT:

CTS Rapid Set Cement ALL may be placed using traditional methods. Organize work so that all personnel and equipment are ready before placement. Place, consolidate and screed quickly to allow for maximum finishing time. Do NOT wait for bleed water; apply final finish as soon as possible. CTS Rapid Set CEMENT ALL may be troweled, floated or broom finished. On flat work Do NOT install in layers, install full depth sections and progress horizontally. Do NOT install on frozen surfaces. Use a method of consolidation that eliminates air voids. To extend working time use CTS Rapid Set, SETCONTROL, set retarding admixture.

CURING:

Water cure all CTS Rapid Set CEMENT ALL installations. Begin curing as soon as the surface has lost its moist sheen. Keep exposed surfaces wet for a minimum of 1 hour. When experiencing extended setting times, due to cold temperature or the use of retarder, longer cure times may be required. The objective of water curing shall be to maintain a continuously wet surface until the product has achieved sufficient strength.

TEMPERATURE:

Warm environmental and materials temperatures will reduce the working time of CTS Rapid Set CEMENT ALL. To compensate for warm temperatures, keep material cool and use chilled mix water. Temperatures below 21°C will decrease the rate of strength gain and CTS Rapid Set CEMENT ALL should not be applied if surface or ambient temperature is below 7.2°C.

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