



## Rapid Set® DOT Repair Mix — DATASHEET

### High Performance Repair Mortar

#### PRODUCT DESCRIPTION:

Rapid Set® DOT Repair Mix is a unique dry blend of Rapid Set® Cement and a quality sand. NO CHLORIDES ARE ADDED. When mixed with water, it produces a quality mortar which gains strengths exceeding 3000-psi in 1-hr and 5000-psi in 24-hr. Rapid Set® DOT Repair Mix is ready for traffic and loading within 2 hours. Rapid Set® DOT Repair Mix is similar in color and application to portland cement concrete. Rapid Set® DOT Repair Mix can be extended with a clean, uniform sized aggregate. For improved durability in some geographical areas, Rapid Set® packaged grout, mortar, concrete and DOT repair mixes contain an admixture which produces about 6% air entrainment in the mixed product.

#### USES:

Rapid Set® DOT Repair Mix is ideal for concrete repair applications where high durability, and quick turn around is required. Uses include repair of highways and bridges, airfield pavements, parking decks and ramps, sidewalks and steps, floors and joints.

#### PHYSICAL PROPERTIES:

- **Neat Bag** (0.8 to 1.2 gal of water)  
Compressive Strength, psi  
1-hr: 3300  
3-hr : 4800  
24-hr : 6500  
28-day: 9500

**Meets ASTM C928, and conforms to California Test No. 551**

- **100% Extension** (1.0 to 1.2 gal of water)  
Compressive Strength, psi  
1.5-hr: 2500  
3-hr: 5000  
24-hr: 6500  
28-day: 8000
- **Flexural Strength, psi**  
4-hr: 400  
1-day: 700  
28-day: 800

**Modulus of Elasticity, psi 28-day: 4,000,000**

#### YIELD & PACKAGING:

Rapid Set® DOT Repair Mix is available through distributors in 25-kg (55-lb) polyethylene lined bags.

Yield on the neat bag is approximately 0.5 cu. ft. per 25kg (55 lb) bag. Yield when bag is extended 100% is approximately 0.9 cu. ft. per 25kg (55 lb) bag.

**SURFACE PREPARATION:**

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

**MIX & APPLY:**

The working time for Rapid Set® DOT Repair Mix is 10-20 minutes at 70F. Setting time is longer at lower temperatures and shorter at higher temperatures. The working time may be extended by using chilled materials and/or Rapid Set® Set Control®. In cold weather heated materials may be used to accelerate the set and strength development.

Place material quickly and strike off with a screed. Apply desired finish. Begin water curing immediately after final finishing. For more details, [contact CTS](#).

**LIMITED WARRANTY:**

CTS Cement Manufacturing Corporation warrants its materials to be of good quality, and, at its sole option, within one year of sale, will replace defective materials or refund the purchase price thereof and such replacement or refund shall be the limit of CTS's responsibility. Except for the foregoing, all warranties, express or implied including merchantability and fitness for a particular purpose are excluded. CTS shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the material.