

		<p>CTS Cement Manufacturing Corporation          11065 Knott Avenue, Suite A          Cypress, CA 90630          Phone: (800) 929-3030 • Fax: (714) 379-8270  <a href="mailto:info@ctscement.com">info@ctscement.com</a>  <a href="http://www.ctscement.com">www.ctscement.com</a></p>
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**Rapid Set® DOT Repair Mix — MSDS**  
**High Performance Repair Mortar**  
**March 2010**

 [Rapid Set® DOT Repair Mix - MSDS \[Printable PDF\]](#)

Rapid Set® Cement, Cement All™, Mortar Mix, Concrete Mix & D.O.T. Repair Mix, D.O.T. Repair Mortar, D.O.T. Cement, Rapid Set® Stucco Mix, Eisenwall® Cement, WunderFixx

**SECTION I — GENERAL INFORMATION**

1. CTS Cement Manufacturing Corporation  
 11065 Knott Avenue, Suite A  
 Cypress, CA 90630  
 Website: [www.ctscement.com](http://www.ctscement.com) or [www.rapidset.com](http://www.rapidset.com)
2. Emergency Phone Number: (800) 929-3030
3. Chemical Name and Synonyms: N/A
4. Trade Name and Synonyms:

Rapid Set® Cement  
 Rapid Set® Non-Shrink, Multipurpose Grout, Cement All, Extra High-Strength Mix  
 Rapid Set® Mortar Mix  
 Rapid Set® Concrete Mix  
 Rapid Set® D.O.T. Mix  
 Rapid Set® D.O.T. Repair Mortar  
 Rapid Set® D.O.T. Cement  
 Rapid Set® Stucco Mix  
 Eisenwall® Cement

5. Chemical Family: Calcium Salts
6. Formula:

Silicon Dioxide [SiO<sub>2</sub>] 15.40% 7631-86-9 N/A N/A  
 Aluminum Oxide [Al<sub>2</sub>O<sub>3</sub>] 13.74% 1344-28-1 N/A N/A  
 Iron Oxide [Fe<sub>2</sub>O<sub>3</sub>] 2.38% 1345-25-1 N/A N/A  
 Calcium Oxide [CaO] 50.87% 1305-78-8 N/A N/A  
 Magnesium Oxide [MgO] 1.26% 1309-48-4 N/A N/A  
 Sulfur Trioxide [SO<sub>3</sub>] 12.52% 7446-11-9 N/A N/A  
 Loss on Ignition 2.84% 65997-15-1  
 Total Alkalis [As Na<sub>2</sub>O] 0.56%  
 Insoluble Residue 0.78%

**SECTION II — HAZARDOUS INGREDIENTS**

7. Hazardous Ingredients:

Silicon Dioxide  
 Aluminum Oxide  
 Iron Oxide  
 Magnesium Oxide  
 Sulfur Trioxide

**SECTION III — PHYSICAL DATA**

8. Boiling Point: N/A
9. Vapor Pressure: N/A
10. Vapor Density: N/A
11. Solubility in Water: Slight (typically 0.1 - 1%)
12. Specific Gravity: Approximately 3.10
13. Percentage Volatile by Volume: N/A
14. Evaporation Rate: N/A
15. Appearance and Odor: Gray (or white) powder, odorless

**SECTION IV — REACTIVITY DATA**

- 16. Flash Point: N/A
- 17. Flammable or Explosive Limits: N/A
- 18. Extinguishing Media: N/A
- 19. Special Fire-Fighting Procedures: N/A
- 20. Unusual Fire and Explosion Hazards: None

**SECTION V — HEALTH HAZARD DATA**

- 21. Threshold Limit Value: 5 mg/m<sup>3</sup> (respirable dust), 10 mg/m<sup>3</sup> (total dust), 30 million particles per cubic foot
- 22. Over Exposure: See Below

**Acute** — Dry cement, when combined with body moisture and wet cement, especially as an ingredient in plastic (unhardened) concrete, can dry the skin and cause alkali burn. Cement dust can irritate the eyes and upper respiratory system.

**Chronic** — Cement dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. (Cement may contain traces of hexavalent chromium).

- 23. Emergency and First-Aid Procedure: Irrigate eyes with water. Wash affected areas of the body with soap and water.

**SECTION VI — REACTIVITY DATA**

- 24. Stability: Product is stable. Although no hazardous reaction will occur, Rapid Set® products should be kept dry until used.
- 25. Incompatibility: None
- 26. Hazardous Decomposition Products: None
- 27. Hazardous Polymerization: Will not occur

**SECTION VII — SPILL PROCEDURES**

- 28. Steps to be taken in case material is spilled: Use dry clean-up methods that Do NOT disperse the dust into the air. Avoid breathing the dust.
- 29. Waste Disposal Method: Material can be returned to container for later use, or it can be disposed of as common waste.

**SECTION VIII — SPECIAL PROTECTION INFORMATION**

- 30. Respiratory Protection: In dusty environments, the use of NIOSH-approved respirator is recommended.
- 31. Ventilation: Local exhaust can be used, if necessary, to control airborne dust levels.
- 32. Eye Protection: In dusty environments, the use of tight-fitting boots and clothing to protect the skin from prolonged contact with cement, especially wet cement in plastic concrete. Immediately after working with cement, workers should shower with soap and water. Precautions must be observed because cement burns occur with little warning. Little heat is sensed.

**SECTION IX — SPECIAL PRECAUTIONS**

- 34. Precautions to be taken in Handling and Storing: None
- 35. Other Precautions: None