



Rapid Set® Concrete Mix — MSDS

Very Fast-Setting Concrete

March 2007

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 or 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 [SiO₂] 15.40% 7631-86-9 N/A N/A
- Aluminum Oxide [Al₂O₃] 13.74% 1344-28-1 N/A N/A
- Iron Oxide [Fe₂O₃] 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 [SO₃] 12.52% 7446-11-9 N/A N/A
- Loss on Ignition 2.84% 65997-15-1
- Total Alkalis [As Na₂O] 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/m³ (respirable dust), 10 mg/m³ (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