

DESIGNER

CONCRETE COATINGS

MATERIAL SAFETY DATA SHEET (MSDS) C-3000 Series Colour Hardener

THIS PRODUCT CLASSIFIED NON-HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

IDENTIFICATION

Other Names: CMM 3000 Multi-Mix and CRS 3000 Resurfacing (Part A) & CRS 3000 Acid Stain Overlay
Manufacturer's Product Code: None allocated

UN Number: None allocated
Dangerous goods class & subsidiary risk: None allocated
Hazchem Code: None allocated
Poisons Schedule Number: None allocated

Use: Stencil and/or stamp pattern dry-shake decorative colour hardener cast in place on fresh concrete surfaces (CMM 3000); and, decorative spray-on or trowel coat colour hardener (CRS 3000 / Acid Stain Overlay) for surface application on hardened concrete.

Physical Description/Properties

Appearance: Powder form available in various colours.
Boiling Point/Melting Point: Some components begin to melt at very high temperatures (>1200°C)
Vapour Pressure: Not applicable
Specific Gravity: Not applicable
Flashpoint: Non flammable
Flammable Limits: Not applicable
Solubility in Water: Cementitious component slightly soluble in water forming an alkaline (caustic) product.

Other Properties

Not explosive. Slight odour. Hardens after mixing with water or polymer modified water admixture.

<u>Ingredients</u>	<u>CAS Number</u>	<u>Proportion % Weight - Typical</u>
Containing Portland Cement	65997-15-1	10% to 60%
Crystalline Silica (sand)	14808-60-7	10% to 60%
Proprietary Ingredients		To 100%

HEALTH HAZARD INFORMATION

ACUTE HEALTH EFFECTS

Swallowed

May cause minor burning sensation and abdominal discomfort. Mild corrosive to mouth and throat.

Eye

Short term exposure: irritating

Long term exposure: irritating, may cause inflammation of the cornea

Skin

Short term exposure: irritating

Long term exposure: wet cement, especially as an ingredient in plastic (unhardened) concrete, mortar or slurry, is slightly caustic and can dry the skin and cause alkali burns. There may also be trace amounts of water-soluble hexavalent chromium present in Portland Cement (0-20ppm), which may cause allergic dermatitis to some individuals.

Inhaled

Irritating to nose, throat and respiratory system causing coughing and sneezing.

CHRONIC HEALTH EFFECTS

Inhaled

Long term exposure and repeated inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung) and lung cancer. Studies have shown that smoking can significantly increase the risk of these conditions in persons consistently exposed to crystalline silica. Under extreme exposure conditions it may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs).

Crystalline silica is present in greater quantities in concrete by reason of the addition of sand and aggregate.

Crystalline silica dust derived from the use of this product in conjunction with pre-mixed concrete could be exacerbated if using dry concrete cutting equipment.

FIRST AID TREATMENT

Swallowed

Immediately wash mouth and lips with water. DO NOT induce vomiting. Drink plenty of water to dilute stomach contents. Seek medical attention if symptoms persist. No health hazard expected with small ingested quantities.

Skin

Wash with tepid soapy water. A shower may be required.

Eyes

Irrigate with copious water for at least 15-30 minutes. Seek medical attention if eye irritation persists.

Inhaled

Move to fresh air, flush nasal passages, wash mouth, lips and throat with water. Seek medical attention if symptoms persist.

Advice to doctor/First Aid Facilities

Treat symptomatically, Eye wash station. Fresh, clean water readily accessible at all times.

PRECAUTIONS FOR USE

EXPOSURE LIMITS

Worksafe Australia exposure Standard

Classified as inert nuisance dust.

Crystalline silica (sand): 0.2 mg/m³ TWA (time-weighted average) as respiratory dust (< 7 micron particle equivalent aerodynamic diameter).

Dust (NOS – not otherwise specified): 10mg/m³ TWA as inspirable dust.

However, where a State or territory prescribes a lower exposure standard, the lower exposure standard applies.

MANUFACTURERS RECOMMENDATIONS

Keep exposure to dust as low as practicable. If inspirable dust levels are kept below 2 mg/m³, health problems such as skin, eye and respiratory irritation will be minimised.

Respirable crystalline silica (sand) exposure levels should be kept below 0.1 mg.m³ TWA. Avoid repeated skin contact with wet concrete and dry or wet cement.

ENGINEERING CONTROLS

Avoid generating dust. All work with cement should be carried out in such a way as to minimise exposure to dust and repeated skin contact. Where dust could be generated whilst handling cement, use local mechanical ventilation or extraction in areas where dust could escape into the work environment. For handling of individual bags, follow personal protection instructions below.

Work areas should be cleaned regularly by wet sweeping or vacuuming.

PERSONAL PROTECTION

Skin

Wear loose comfortable protective clothing and impervious boots. Wear gloves (AS 2161) or use approved barrier creams to protect hands. Wash skin-exposed areas thoroughly after handling. Launder clothes regularly and keep separate from other clothes.

Eyes

Wear safety spectacles with side shields or safety goggles (dust resistant AS/NZS 1336) if dust is likely to be generated.

Respiratory

If dust is generated, wear a class P1 or P2 particulate respirator (AS/NZS 1715 & 1716). Use only respirators which bear the Australian Standards mark and are fitted correctly. Note that persons with facial hair will have difficulty in obtaining a satisfactory face seal. For alternatives, see AS/NZS 1715: Selection and Use of Respiratory Protective Devices.

Flammability

Not flammable. Does not support combustion of other materials.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Storage Temperature:	Room temperature
UN Class:	None allocated
Packaging Group:	None allocated
UN Number:	None allocated
EPG Number:	None allocated
Correct Shipping Name:	None allocated
Storage Advice:	Keep dry at all times. Storage of opened bags will effectively reduce the quality of the product over time. Classified as a non-dangerous good under the Australian Transport of Dangerous Goods Code.

Transport by rail, road or ship in bag form. Keep dry in weatherproof vehicles and storage sheds.

SPILLS AND DISPOSAL

Follow safety requirements for personal protection. If spills occur, vacuum or wet sweep and shovel so as to minimise dust generation. Collect in containers and dispose of as trade waste in accordance with local authority guidelines. Keep out of sewer and storm water drains.

FIRE / EXPLOSION HAZARD

The material will not burn or explode. Does not cause dust explosions.

DECOMPOSITION PRODUCTS

In case of small fire/explosion use:	Water
In case of major emergency:	Water
HAZCHEM CODE:	None allocated
Extinguishment:	Water, or as for other chemicals present
Danger of violent reaction or Explosion:	No
Protective clothing:	As for other chemicals present
Appropriate measures:	Dilute
Evacuate:	No

OTHER INFORMATION

Smoking: Cigarette smoking increases the risk of occupational respiratory diseases. It is recommended that all storage and work areas should be smoke-free zones.

CONTACT POINT

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This Materials Safety Data Sheet has been prepared in accordance with the guidelines stipulated in the "Worksafe" legislation encompassing the "Occupational Health and Safety Act – 1983".