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## Material Safety Data Sheet

**PRODUCT:** Unitex® Harbour Fine Render

**DATE OF ISSUE:** 8<sup>th</sup> July 2015

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### Product Information

**Trade name:** Unitex® Harbour Fine Render

**Company** Unitex Granular Marble Pty Ltd  
22 Park Drive  
Dandenong, Vic. 3175  
Australia

**Telephone** +61 3 9768 4900  
**Telefax** +61 3 9768 4999

**Emergency telephone Number** +61 3 9768 4900 (BH)

**Use of the Product** render for coating over masonry and rendered surfaces

### 2. HAZARDS IDENTIFICATION

#### THIS PRODUCT IS CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

The product contains Portland cement, Fly Ash, washed sand and organic functional additives. Portland cement and Fly Ash are classified as a Hazardous Substances, Non-Dangerous Goods according to the criteria of NOHSC. All other components are classified as Non Hazardous, Non Dangerous Goods.

#### Risk phrases for Portland cement are:

R36/37/38 Irritating to eyes, respiratory system and skin  
R40 Possible risk of irreversible effects  
R43 May cause sensitization by skin contact  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation

#### Safety Phrases for Portland cement

S22 Do not breathe dust  
S24/25 Avoid contact with skin and eyes  
S36/37 Wear suitable protective clothing and gloves

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The chemical composition of the product is essentially oxides of various elements, the most prevalent being oxides of calcium Ca, silica Si, aluminium Al, iron Fe, titanium Ti, chromium Cr (mostly as insoluble Cr III but it is possible that water soluble Cr IV could be present at concentrations of less than 10 ppm). Trace amounts of oxides of magnesium Mg, potassium K and phosphorus P may also be present. As cement is a blended product, crystalline silica at levels less than 0.1 % may be present.

#### Risk phrases for Fly Ash are:

R20 Harmful by inhalation  
R36/37/38 Irritating to eyes, respiratory system and skin  
R40 Possible risk of irreversible effects

#### Safety Phrases for Portland cement

S22 Do not breathe dust  
S24/25 Avoid contact with skin and eyes  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection  
S38 In case of insufficient ventilation, wear suitable respiratory protection  
S51 Use only in well ventilated areas

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Proportion
Silicon dioxide, non-respirable	14808-60-7	65-75 %
Portland cement	65997-15-1	15-25 %
Gypsum	10101-44-4	< 2 %
Limestone	1317-65-3	< 1 %
Polyvinylchloride/ethylene/vinyl laurate polymer	52383-89-8	< 0.5 %
Fly Ash	63131-74-8	5-10 %
containing		
Crystalline silica (quartz), respirable	14808-60-7	< 0.1 %
Mullite	1302-93-8	< 2 %

### 4. FIRST AID MEASURES

#### 4.1 Health Effects

##### Swallowed

**Health effects** Is mildly abrasive and corrosive and may cause nausea/stomach cramps/constipation. Unlikely under normal conditions of use.

**First Aid:** Rinse mouth with milk or water. DO NOT give carbonated (fizzy) drinks. DO NOT induce vomiting. After rinsing the mouth, give plenty of water to drink. If symptoms persist, seek medical attention.

##### Eyes

**Health effects** Irritating and corrosive to the eyes. May cause chemical conjunctivitis, redness, watering and damage to the cornea.

**First Aid:** Flush eyes with tepid running water for at least 15 minutes, removing any foreign bodies. Seek medical attention if symptoms persist.

**Skin Health effects:** Irritating and drying to skin – can result in irritant dermatitis from mechanical abrasion. Wet mortar is irritating and corrosive to skin and may cause skin sensitization (dermatitis). There may be a trace of hexavalent chromium present in Portland cement which may cause allergic dermatitis in some individuals.

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**First Aid** Wash with tepid soapy water; shower if necessary.

#### Inhaled

**Health effects:** Irritating to the nose, throat and respiratory tract causing coughing and sneezing. Repeated inhalation of the dust may cause bronchitis, silicosis and lung cancer.

**First Aid:** Remove to fresh air. Keep at rest. Seek medical advice if symptoms persist.

#### 4.2 Chronic Health Effects

Inhalation of high levels of fly ash may result in severe inflammation of the small airways of the lung and asthma-like symptoms. Repeated inhalation of dust containing crystalline silica may cause bronchitis, silicosis (scarring of the lung) and lung cancer. It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs). The International Agency for Research on Cancer (IARC) states: "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)."

#### Advice to Doctor

Treat symptomatically.

#### Aggravated Medical Conditions Caused by Exposure

Studies have shown that smoking increases the risk of bronchitis, silicosis and lung cancer in persons exposed to crystalline silica. It is recommended that all storage and work areas should be smoke free zones.

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## 5. FIRE-FIGHTING MEASURES

<b>Hazchem Code</b>	None allocated
<b>Flammability</b>	Not flammable
<b>Extinguishing media</b>	None required
<b>Hazards from combustion products</b>	None – does not decompose on heating
<b>Special Protective Precautions &amp; Equipment for Fire Fighters</b>	None

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## 6. ACCIDENTAL RELEASE MEASURES

#### Emergency Procedures

Avoid generating and breathing dust. If dust is generated, wear a class P1 or P2 particulate respirator (AS/NZS 1715, 1716).

#### Containment Procedures

A fine water spray should be used to suppress dust when sweeping.

#### Clean-up Procedures

Work areas should be cleaned regularly by wet sweeping or vacuuming. If dust generation cannot be avoided, follow PERSONAL PROTECTION recommendations.

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## 7. HANDLING AND STORAGE

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## Safe Handling Advice

Provide good ventilation or extraction.

Wear personal protective equipment

Unitex® Harbour Fine Render is packed in 20 kg multi-ply paper sacks. It is recommended that all manual handling of products greater than 15 kg be undertaken by load shifting equipment. Manual handling of this product is not recommended as this may result in personal injury. If no mechanical aids are available, you must not lift this product unless you share the load with 2 or more persons for weights up to 20 kilograms and 3 or more persons up to 40 kilograms. For weights greater than 40 kilograms, mechanical aids for load shifting must be used. Prior to manual handling, it is recommended that a manual handling risk assessment be undertaken.

Use local mechanical ventilation or extraction in areas where dust could escape into the work environment.

Personal safety requirements are outlined in Section 6, Exposure Control / Personal Protection.

## Conditions for Safe Storage

Unitex® Harbour Fine Render should be stored in a dry place, in their original unbroken multi-ply paper sacks. Avoid moisture to prevent hardening. When stored correctly in dry, unopened sacks, a shelf life of 6 months ought to be expected.

Drivers of trucks transporting Unitex® Harbour Fine Render should ensure that the paper sacks are correctly restrained on a pallet.

**Incompatibilities**      None

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Exposure Limits

Unitex® Harbour Fine Render is supplied as a blended dry powder. Prior to application, the powder is mixed with water and mixed to a smooth, viscous slurry and is then trowel or spray applied onto masonry surfaces such as brick walls. As Unitex® Harbour Fine Render contains both Portland cement and Fly Ash as major components, it is classed as a Hazardous, Non-Dangerous product.

For the blended dry powder, the National Exposure Standard from NOHSC is:

Total dust, containing no asbestos and < 1 % crystalline silica, Threshold Limit Value (TLV) Time Weighted Average (TWA) is 10 mg/m<sup>3</sup> measured as respirable dust.

Crystalline silica (quartz): 0.2 mg/m<sup>3</sup> TWA as respirable dust (< 7 micron particle equivalent aerodynamic diameter).

Respirable crystalline silica (quartz) exposure levels should be kept below a recommended upper threshold limit of 0.05 mg/m<sup>3</sup> TWA.

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

When wet, Unitex® Harbour Fine Render, particularly in slurry form, can dry the skin and cause alkali burns. Continued exposure to individuals who are allergic to chromium, could cause severe allergic dermatitis.

### 8.2 Engineering Controls

Avoid generating dust. All work with Unitex® Harbour Fine Render should be carried out in such a way as to minimize exposure to dust and repeated skin contact. Where dust could be generated whilst handling the product, use local mechanical ventilation or extraction in areas where dust could escape into the work environment.

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Work areas should be cleaned regularly by wet sweeping or vacuuming. If generating dust cannot be avoided, see personal protection recommendations below.

### 8.3 Ventilation

Where practical, the workplace should be well ventilated with suitable means of dust collection/suppression equipment so as to maintain acceptable airborne dust levels. Persons with a history of respiratory illness or reduced pulmonary function should avoid work places with high dust levels.

### 8.4 Personal Protection

#### Skin

Wear loose comfortable protective clothing and impervious boots. Apply barrier creams to hands or wear cotton or light duty leather gloves (AS/NZS 2161). Wash thoroughly after handling. Wash clothes regularly and keep separate from other clothes.

#### Eyes

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

#### Respiratory

None required if engineering controls are adequate. If dust is generated, wear a class P1 or P2 particulate respirator (AS/NZS 1715). 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 maintenance of Respiratory Protective Devices.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Blended powder – off-white in shade
<b>Odour</b>	None
<b>pH</b>	alkaline slurry formed with water
<b>Density</b>	approx 2.5 - 3.0 g/cm <sup>3</sup>
<b>Boiling point</b>	not applicable
<b>Freezing/Melting point</b>	> 1400 °C
<b>Vapour density</b>	not applicable
<b>Vapour pressure</b>	not applicable
<b>Solubility</b>	Essentially insoluble. However, some components are slightly soluble in water forming an alkaline (caustic) product
<b>Flash point</b>	not applicable
<b>Ignition temperature</b>	not applicable
<b>Additional Information</b>	Respirable Fraction: approximately 10-20 % of particles are below 7 microns in diameter (in the respirable range)

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## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Chemically stable
<b>Conditions to avoid</b>	None
<b>Incompatible Materials</b>	None
<b>Hazardous Decomposition Products</b>	None
<b>Hazardous Reactions</b>	Avoid reaction with hydrogen fluoride (hydrofluoric acid) and other fluorine containing compounds

## 11. TOXICOLOGICAL INFORMATION

<b>Health effects from the likely routes of exposure</b>	Refer Section 4: FIRST AID MEASURES
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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No information available. Product may be eco-damaging as it can form an alkaline slurry with water.
<b>Persistence &amp; Degradability</b>	Product would be persistent and have a low degradability.
<b>Mobility</b>	No information available. A low mobility would be expected in a landfill setting.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Methods &amp; Containers</b>	Follow safety requirements indicated in Section 6. Collect in containers and dispose as trade waste in accordance with local authority guidelines.
<b>Special considerations for landfill or incineration</b>	Avoid generating dust during disposal..

## 14. TRANSPORT INFORMATION

<b>UN Number</b>	None allocated
<b>UN Proper shipping Name</b>	None allocated
<b>Class &amp; Subsidiary Risk</b>	Not applicable
<b>Packaging Group</b>	None allocated

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**Special Precautions for Use**      Avoid generating and breathing dust

**Hazchem Code**                      None allocated

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## 15. REGULATORY INFORMATION

**Australian Legislation**              Hazardous according to criteria of NOHSC..

**Poison schedule**                      Not listed

**Registration**  
Australia (AICS)                      Listed/registered  
New Zealand (ERMA)              Listed/registered

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## 16. OTHER INFORMATION

**Date amended and issued**              8<sup>th</sup> July 2015

Prepared in accordance with the National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition (NOHSC: 2011 (2003))

### END OF REPORT

This information contained herein relates only to the specific material identified. Unitex Granular Marble Pty Ltd believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability or completeness of the information.

Unitex urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

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