

KONSTRUKT LWR MORTAR
High Build Polymer Modified Fire rated,
Light Weight Repair Mortar

Product Code:
MORTARLWR20

Issue Date: 21/08/2015

This product is classified as hazardous according to criteria of NOHSC

Section 1 – Identification of the Material and Supplier

PRODUCT (MATERIAL) NAME: LWR MORTAR
OTHER NAMES:
RECOMMENDED USES: High Build Polymer Modified Fire rated Light Weight Repair Mortar
SUPPLIER NAME/ADDRESS: I TLS-TWA Australia Pty Ltd – 250 Princes Hwy Dandenong Vic 3175
TELEPHONE NUMBER: (03) 9791 8211 **FACSIMILE NUMBER:** (03) 9791 8644
EMERGENCY PHONE NUMBER: (03) 9791 8211 **HOURS:** 0800-1700 Mon-Fri

Section 2 – Hazards Identification

HAZARD CLASSIFICATION: Classified as a HAZARDOUS SUBSTANCE according to criteria of NOHSC, and the ADG Code.
Classified as NON-DANGEROUS GOODS according to criteria of Australia Dangerous Goods Code

RISK PHRASES:

- R37/38** Irritating to respiratory system and skin.
- R48/20** Danger of serious damage to health by prolonged exposure through inhalation
- R41** Risk of serious damage to eyes.

SAFETY PHRASES:

- S22** Do not breath dust.
Avoid contact with eyes.
In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre 13 11 26 (Australia-wide).
- S24** Avoid contact with skin.
- S25** Avoid contact with eyes.
- S36** Wear suitable protective clothing.
- S37** Wear suitable gloves.
- S39** Wear eye/face protection.
- S51** Use only in well ventilated areas.
- S09** Keep container in a well ventilated place.
- S401** To clean the floor and all objects contaminated by this material, use water and detergent.
- S13** Keep away from food, drink and animal feeding stuffs.
- S26** In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.
- S46** If swallowed, IMMEDIATELY contact Doctor or Poisons Information Centre. (show this container or label).

Section 3 – Composition/Information on Ingredients

INGREDIENTS:

Chemical Name:	Proportion:	CAS Number:
Aluminosilicate	30-60%	[1327-36-2]
Portland cement	20-40%	[65997-15-1]

Balance of formulation consists of ingredients below cut-off rates or ingredients determined not to be hazardous.

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Section 4 – First Aid Measures

INHALATION:	If inhaled, remove patient to fresh air. Encourage patient to blow nose and clear breathing passages. Drink water to remove dust from throat. If breathing stops, provide artificial respiration. Seek medical attention if irritation persists.
INGESTION:	If swallowed, DO NOT induce vomiting. Rinse mouth with plenty of water. For advice, contact the Poisons Information Centre (Phone Australia-wide 13 11 26) or a doctor.
SKIN:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Remove contaminated clothing and wash before reuse. Wash off skin with soap and water. Seek medical assistance if irritation persists.
EYES:	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or a doctor, or for at least 15 minutes. Removal of contact lenses after injury should only be undertaken by skilled personnel.
FIRST AID FACILITIES:	Eye wash and normal washroom facilities.
ADVICE TO DOCTOR:	Treat symptomatically. POISON INFORMATION CENTRE – 13 11 26 Australia-wide.
EXTINGUISHING MEDIA:	Select to suit surrounding fire.
HAZARDS FROM COMBUSTION PRODUCTS:	Not applicable.
SPECIAL PROTECTIVE PRECAUTIONS AND EQUIPMENT FOR FIRE FIGHTERS:	Fire fighters to wear self-contained breathing apparatus. Avoid bodily contact with substance or run-off.
HAZCHEM CODE:	Not applicable.
ADDITIONAL INFORMATION:	Not applicable.

Section 6 – Accidental Release Measures

EXTINGUISHING MEDIA:	<ul style="list-style-type: none">- There is no restriction on the type of extinguisher which may be used.- Use extinguishing media suitable for surrounding area.
FIRE FIGHTING:	<ul style="list-style-type: none">- Alert Fire Brigade and tell them location and nature of hazard.- Wear breathing apparatus plus protective gloves for fire only.- Prevent, by any means available, spillage from entering drains or water courses.- Use fire fighting procedures suitable for surrounding area.
FIRE/EXPLOSION HAZARD:	<ul style="list-style-type: none">- Non combustible.- Not considered a significant fire risk, however containers may burn, silicon dioxide (SiO₂).- May emit poisonous fumes.- May emit corrosive fumes.
FIRE INCOMPATIBILITY:	None known.
HAZCHEM:	None

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Section 6 – Accidental Release Measures

MINOR SPILLS:

- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Control personal contact by using protective equipment.

MAJOR SPILLS:

- Moderate hazard.
- CAUTION: Advise personnel in area.
 - Alert Emergency Services and tell them location and nature of hazard.
 - Control personal contact by wearing protective clothing.
 - Prevent, by any means available, spillage from entering drains or water courses.

Section 7 – Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

CONDITIONS FOR SAFE STORAGE:

- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks.
- Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
- Avoid contact with copper, aluminium and their alloys.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.

Section 8 – Exposure Controls / Personal Protection

NATIONAL EXPOSURE STANDARDS:

Portland Cement - TWA mg/m -10 (see Chapter 14)
The following materials had no OELs on our records
aluminosilicate: CAS:1327- 36- 2

MATERIAL DATA:

ALUMINOSILICATE:
PORTLAND CEMENT:
The concentration of dust, for application of respirable dust limits, is to be determined from the fraction that penetrates a separator whose size collection efficiency is described by a cumulative log-normal function with a median aerodynamic diameter of 4.0 µm (+-) 0.3 µm and with a geometric standard deviation of 1.5 µm (+-) 0.1 µm, i.e.. generally less than 5 µm.

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Not available

ALUMINOSILICATE:

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It is the goal of the ACGIH (and other Agencies) to recommend TLVs (or their equivalent) for all substances for which there is evidence of health effects at airborne concentrations encountered in the workplace.

At this time no TLV has been established, even though this material may produce adverse health effects (as evidenced in animal experiments or clinical experience).

NOTE: The ACGIH occupational exposure standard for Particles Not Otherwise Specified (P.N.O.S) does NOT apply.

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations.

PORTLAND CEMENT:

For calcium silicate:

Containing no asbestos and <1% crystalline silica

ES TWA: 10 mg/m³ inspirable dust

TLV TWA: 10 mg/m³ total dust (synthetic nonfibrous) A4

Although in vitro studies indicate that calcium silicate is more toxic than substances described as "nuisance dusts" is thought that adverse health effects which might occur following exposure to 10-20 mg/m³ are likely to be minimal. The TLV-TWA is thought to be protective against the physical risk of eye and upper respiratory tract irritation in workers and to prevent interference with vision and deposition of particulate in the eyes, ears, nose and mouth.

For calcium oxide:

The TLV-TWA is thought to be protective against undue irritation and is analogous to that recommended for sodium hydroxide.

NOTE: This substance has been classified by the ACGIH as A4 NOT classifiable as causing Cancer in humans. Portland cement is considered to be a nuisance dust that does not cause fibrosis and has little potential to induce adverse effects on the lung.

PERSONAL PROTECTION:

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EYE

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent].

HANDS/FEET

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene
- nitrile rubber
- butyl rubber
- fluorocautchouc.

OTHER

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.

ENGINEERING CONTROLS

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Section 9 – Physical and Chemical Properties

APPEARANCE (COLOUR, PHYSICAL FORM, SHAPE):

Fine grey powder; Partly mixes with water.

PHYSICAL PROPERTIES

STATE	DIVIDED SOLID	MOLECULAR WEIGHT	NOT APPLICABLE
MELTING POINT (C)	Negligible	VISCOSITY	NOT APPLICABLE
BOILING RANGE (C)	Not available	SOLUBILITY IN WATER (g/L)	PARTLY MISCIBLE
FLASH POINT	Not applicable	pH (1% SOLUTION)	NOT APPLICABLE
DECOMPOSITION TEMP (C)	Partly miscible in water	pH (as supplied)	NOT APPLICABLE

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AUTOIGNITION TEMP (C)	1.5	Vapour Pressure (kPa)	NEGLIGIBLE
UPPER EXPLOSIVE LIMIT (%)	Non-combustible	Specific Gravity (water=1)	1.5
LOWER EXPLOSIVE LIMIT (%)	Not applicable	Relative Vapour Density (air=1)	NOT AVAILABLE
VOLATILE COMPONENT (%VOL)	Not applicable	Evaporation Rate	NOT AVAILABLE

Section 10 – Stability and Reactivity

CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
 - Product is considered stable.
 - Hazardous polymerisation will not occur.
- For incompatible materials - refer to Section 7 - Handling and Storage.

Section 11 – Toxicological Information

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TOXICOLOGY INFORMATION: **POTENTIAL HEALTH EFFECTS**

ACUTE HEALTH EFFECTS

SWALLOWED

- Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract.

Accidental ingestion of the material may be damaging to the health of the individual.

EYE

- If applied to the eyes, this material causes severe eye damage.

SKIN

- This material can cause inflammation of the skin oncontact in some persons. The material may accentuate any pre-existing dermatitis condition.

Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

INHALED

- The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.

Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. Effects on lungs are significantly enhanced in the presence of respirable particles.

CHRONIC HEALTH EFFECTS

- Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Harmful: danger of serious damage to health by prolonged exposure through inhalation. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. This has been demonstrated via both short- and long-term experimentation. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Cement contact dermatitis (CCD) may occur when contact shows an allergic response, which may progress to sensitisation. Sensitisation is due to soluble chromates (chromate compounds) present in trace amounts in some cements and cement products. Overexposure to respirable dust may cause coughing, wheezing, difficulty in breathing and impaired lung function. Chronic symptoms may include decreased vital lung capacity, chest infections. Repeated exposures, in an occupational setting, to high levels of fine- divided dusts may produce a condition known as pneumoconiosis which is the lodgement of any inhaled dusts in the lung irrespective of the effect.

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Section 12 – Ecological Information

ECOTOXICITY:	Not available
PERSISTENCE AND DEGRADABILITY:	Not available
MOBILITY:	Not available
ENVIRONMENTAL PROTECTION:	Not expected to create environmental hazards unless dumped in massive quantity.
DISPOSAL METHODS AND CONTAINERS:	Refer to State Land Waste Management Authority. Empty containers must be decontaminated. Normally suitable for disposal at approved land waste site.

Section 13 – Disposal Considerations**CONSIDER:**

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

Section 14 – Transport Information

UN NUMBER:	None assigned
UN PROPER SHIPPING NAME:	None assigned
CLASS AND SUBSIDIARY RISK:	None assigned
PACKING GROUP:	None assigned
HAZCHEM CODE:	None assigned
SPECIAL PRECAUTIONS PER USER:	

Keep containers tightly sealed when not in use. Store in a cool, dry, well-ventilated place and out of direct sunlight. Keep away from strong acids. No regulatory requirements apply to the transport of this product.

Section 15 – Regulatory Information**REGULATIONS:**

Aluminosilicate (CAS: 1327-36-2) is found on the following regulatory lists; "Australia High Volume Industrial Chemical List (HVICL)", "Australia Inventory of Chemical Substances (AICS)", "Australia National Pollutant Inventory", "OECD List of High Production Volume (HPV) Chemicals"

Portland cement (CAS: 65997-15-1) is found on the following regulatory lists; "Australia Exposure Standards", "Australia High Volume Industrial Chemical List (HVICL)", "Australia Inventory of Chemical Substances (AICS)", "OECD List of High Production Volume (HPV) Chemicals"

No data for Penapatch Panel LW (10Kg) (CW: 31-2103)

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Section 16 – Other Information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. A list of reference resources used to assist the committee may be found at: www.chemwatch.net/references.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

The information and any recommendations relating to the application and end-use of all Konstrukt products are provided in good faith based on Synergy knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by Synergy. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.