

**CRYST-O-FLEX LIQUID**

Not classified as hazardous according to the criteria of Worksafe Australia.

**Identification**

Name: Duram Cryst-O-Flex Liquid  
Other Names: Crystoflex Liquid  
CAS RN No(s): None  
UN Number: None  
Dangerous Goods Class: None  
Packaging Group: None  
Subsidiary Risk: None  
Hazchem Code: None  
Poisons Schedule Number: None

**Use**

Liquid binder of two part liquid membrane coating. Used for waterproofing. Concrete protection. Requires that the two parts be mixed by hand or mixer before use, in accordance with manufacturers directions. Mix only as much as is required. Do not return the mixed material to the original containers. Applied using a hand trowel or spreader.

**Physical Data / Properties**

Appearance: Milky white liquid; mixes with water. Slight acrylic odour. Grey green appearance when mixed with powder component.  
Boiling Point (deg C): 100 (water)  
Melting Point (deg C): 0 (water)  
Vapour Pressure (kPa): As water  
Specific Gravity: 1.04 @ 20C  
Flash Point (deg C): Non flammable  
Lower Explosive Limit (%): Not applicable  
Upper Explosive Limit (%): Not applicable  
Solubility in Water (g/L): Mixes with water

**Ingredients**

Name	CAS RN	%
acrylic copolymer unspecified		30-60
ingredients unspecified		10-60
residual acrylic monomers unspecified		<0.1
water	7732-18-5	30-60

No other ingredient information disclosed.

**Health Hazard****Acute Health Effects****Swallowed:**

Considered an unlikely route of entry in commercial/industrial environments. The liquid is discomforting and may be harmful if swallowed. Ingestion may result in nausea, abdominal irritation, pain and vomiting.

**Eye:**

The liquid is irritating to the eyes and may cause smarting, pain and redness.

**Skin:**

The liquid is mildly discomforting and adhesive to the skin if contact is prolonged.

The mixed material is capable of causing skin reactions and may cause in some cases, sensitisation.

Handling wet cement based products can cause dermatitis. Cement based products when wet may be quite alkaline and this alkali action on the skin may contribute to cement contact dermatitis by causing drying and defatting of the skin which may be followed by hardening, cracking, development of lesions, possible infections of lesions and penetration by soluble salts.

Open cuts, abraded or irritated skin should not be exposed to this material. The material may accentuate any pre-existing dermatitis condition.

**Inhaled:**

The vapour/mist is discomforting to the upper respiratory tract and lungs. Inhalation of vapour may result in nausea, headache.

Acrylic polymer emulsions may contain residual traces of odourous acrylic monomers; the amounts remaining in compounded mixtures represents a very low order of exposure, however this may become noticeable with some materials particularly in confined or poorly ventilated spaces.

**Chronic Health Effects**

Principal routes of exposure are usually by skin contact with the material and with the mixed material.

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

**First Aid****Swallowed:**

Rinse mouth out with plenty of water. If irritation or discomfort persists seek medical attention.

**Eye:**

If this product comes in contact with the eyes:

1. Immediately hold the eyes open and wash continuously for at least 15 minutes with fresh running water.
2. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
3. Transport to hospital or doctor without delay.
4. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**IMPORTANT**

The product information contained in this data sheet is given in good faith based upon our knowledge and current information and does not imply any warranty. The information contained herein is provided on the basis that the product is applied in a proper manner strictly in accordance with instructions onto correctly prepared surfaces which shall remain sound, stable and free of cracking or movement. Instruction application deviation may diminish or negate the performance of the product. Under no circumstances will the Company be liable for any loss, consequential or otherwise, arising from the use of the product. We reserve the right to amend specification and application techniques without prior notice.

**DURAM INDUSTRIES (PTY) LTD** ACN 002 968 809 ABN 77 002 968 809

**The Ultimate in Waterproofing & Protective Coating Technology**

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#### Skin:

If product comes in contact with the skin:

1. Wash affected areas thoroughly with water (and soap if available).
2. Seek medical attention in event of irritation.

#### Inhaled:

1. If fumes or combustion products are inhaled: Remove to fresh air.
2. Lay patient down. Keep warm and rested.
3. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
4. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
5. Transport to hospital, or doctor.

## Advice To Doctor

Treat symptomatically

## Precautions for Use

### Exposure Standards

Non assigned. Refer to individual constituents.

### Engineering Controls

Use in a well-ventilated area.

None required when handling small quantities. OTHERWISE:

General exhaust is adequate under normal operating conditions.

If risk of overexposure exists, wear SAA approved respirator.

Correct fit is essential to obtain adequate protection.

Provide adequate ventilation in warehouse or closed storage areas.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

## Personal Protection

### Eye:

Safety glasses with side shields; or as required, Chemical goggles. Contact lenses pose a special hazard; soft lenses may absorb irritants and all

lenses concentrate them.

### Hands/Feet:

Wear chemical protective gloves. eg. PVC gloves with barrier cream.  
Wear safety footwear.

### Other:

1. Overalls.
2. Eyewash unit.

## Safe Handling

### Storage And Transport

Suitable container:

Lined metal can. Lined metal pail/drum.

Plastic pail. Polyliner drum.

Packing as recommended by manufacturer.

Check all containers are clearly labelled and free from leaks.

### Storage incompatibility:

Avoid contamination of water, foodstuffs, feed or seed.

### Storage Requirement:

1. Store in original containers.
2. Keep containers securely sealed.
3. Store in a cool, dry, well ventilated area.
4. DO NOT allow to freeze.
5. Store away from incompatible materials.
6. Protect containers against physical damage and check regularly for leaks.
7. Observe manufacturer's storing and handling recommendations.

### Transportation:

No restrictions.

### Spills And Disposal

Minor Spills:

1. Clean up all spills immediately.
2. Avoid breathing vapours and contact with skin and eyes.
3. Control personal contact by using protective equipment.
4. Contain and absorb spill with sand, earth, inert material or vermiculite.
5. Wipe up.
6. Place in a suitable labelled container for waste disposal.

### Major Spills:

Minor hazard.

1. Clear area of personnel.
2. Alert Fire Brigade and tell them location and nature of hazard.
3. Control personal contact by using

protective equipment as required.

4. Prevent spillage from entering drains or water ways.
5. Contain spill with sand, earth or vermiculite.
6. Collect recoverable product into labelled containers for recycling.
7. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
8. Wash area and prevent runoff into drains or waterways.
9. If contamination of drains or waterways occurs, advise emergency services.

### Disposal:

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

### Fire / Explosion Hazard

1. The material is not readily combustible under normal conditions.
2. However, it will breakdown under fire conditions and the organic component may burn.
3. Not considered to be a significant fire risk.
4. Heat may cause expansion or decomposition with violent rupture of containers.
5. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
6. May emit acrid smoke.  
Decomposition may produce toxic fumes of acrylic monomer.

## Contact

Australian Poisons Information Centre

24 Hour Service: 13 11 26

Police or Fire Brigade: 000 (exchange): 1100

New Zealand Poisons Information Centre Dunedin:

(03)479 1200 (Normal hours)

(03) 4740999 (Emergency)

Duram Industries Pty Ltd

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