

Product	Section	Reference
<b>DRYSEAL</b> Semi-rigid Roofing System	Health and Safety	<b>H</b>

## Health and Safety

### Polyester Resin and Top Coat

Refer to product label for more information.

Intended use: Polyester resin for GRP Roofing.  
Refer to Product Technical Information Bulletin for more information.

#### PRECAUTIONS/FIRST-AID MEASURES

**General:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

**Eye contact:** Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.

**Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion:** If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### FIRE-FIGHTING MEASURES

**Extinguishing Media:**  
**recommended:** alcohol resistant foam,  
CO<sup>2</sup> powders, water spray  
**not to be used:** waterjet.

**Recommendations:** Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

#### ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Avoid breathing vapour. Contain and collect spillage with non-combustible materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. In the UK the Local Water Authority, the National Rivers Authority and HMIP must be informed.

#### HANDLING AND STORAGE

**Handling:** The vapour is heavier than air and may spread along floors. Vapour may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational limits. Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep containers tightly closed. Isolate from sources of heat, sparks and open flame. Non-sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in application area. Never use pressure to empty containers. They are not pressure vessels. Always keep in containers of same material as the original one. Comply with the health and safety at work laws.

**Storage:** Store in accordance with local regulations. Observe label precautions. Store in temperatures below 20°C, in a dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidizing agents, strongly alkaline materials and strongly acidic materials. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Personal protection:** Respiratory protection: full face or half-mask, with filter, suitable for organic vapour. When spraying or working at high concentrations, use self-contained breathing apparatus.

**Hand protection:** For prolonged or repeated contact, use resistant gloves of polyvinyl alcohol, ethylene vinyl alcohol or Teflon. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

**Eye protection:** Use safety eyewear designed to protect against splash of liquids.

**Skin protection:** Personnel should wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact.

**Stability and reactivity:** Stable under recommended storage and handling conditions. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**Disposal considerations:** Do not allow into drains or water courses. Wastes and emptied containers should be handled according to local regulations. In the UK the Environmental Protection Act, 1990, applies. Advice should be sought from the Local Authority regarding disposal of resins, containers and other contaminated waste.

**Regulatory information:** For full information on all rules and regulations concerning health and hazard matters contact Hambleside Danelaw Limited for appropriate data sheets.

Product

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## Health and Safety continued

### Solvent Cleaning Solution

**ACETONE CAS No. 67-64-1**

#### PRECAUTIONS/FIRST-AID PROCEDURES:

**Skin – Avoid contact, wear impervious gloves, irritant:** In case of contact, wash with plenty of soap and water. Remove oils from skin. Prolonged or frequent contact may cause irritation or even dermatitis. Seek medical attention if any signs or symptoms occur.

**Eyes – Avoid contact, wear safety glasses, moderate to severe irritant:** In case of contact, wash out immediately with copious amounts of water for 15 minutes. Obtain medical attention urgently.

**Inhalation – Do not inhale, pungent odour irritant and harmful:** If affected move to fresh air and seek medical attention. Give oxygen and artificial respiration if necessary. Exposure control for Acetone: 8 hr OEL – 750 ppm; 15 min SREL - 1500 ppm.

**Ingestion – Do not swallow, irritant and harmful:** If swallowed, drink plenty of water. **Do not** induce vomiting, seek medical attention.

**Spillage – No smoking (flash point – 17°C), wear a fume mask:** Remove all sources of ignition. No smoking. Ventilate areas. Do not allow to enter drains. If vapour concentration is high, wear suitable breathing equipment. Mix with sand or vermiculite, clear up and dispose to approved landfill site under National/Local waste regulations. Liquid will evaporate.

**Waste disposal:** Incinerate in a suitable combustion chamber. Absorb in sand or vermiculite. Dispose in licensed special waste.

**Storage:** Always store in original vented containers away from combustible materials or incompatibles, such as accelerators and solvents. Store out of strong sunlight, never contaminate the product. Bulk material should be stored in a separate locked brick building.

**FIRE-FIGHTING MEASURES – Highly flammable, extinguish using dry powder, CO2 or foam: Special fire fighting procedure** – Fight fire from a safe distance, possible explosion hazards. Apply copious amounts of dry powder. Keep adjacent containers cool with water spray. **Do not use jet on small fire.** Flash point – 17°C. Flammability/explosion limit LEL 2.1%, UEL 13%.

### Glass Fibre Chopped Strand Mat

**COMPOSITION: FILAMENT GLASS FIBRE HELD TOGETHER WITH A BINDER**

**SAFETY PROCEDURES: Irritant, wear safety glasses.**

#### PRECAUTIONS/FIRST-AID PROCEDURES:

**Skin – Wear gloves, irritant:** Skin irritation may be experienced by those new to handling the material. It should disappear with time but, if not, protective clothes or barrier cream may be used. Copious amounts of water should be poured over the effected parts before washing. If any allergic reaction has developed, further contact with the product should be avoided and medical advice sought.

**Eyes – Avoid contact, wear safety glasses, irritant:** Particles of fibre entering the eyes will cause irritation. This is true for all particular dust. Rinse with water for up to 15 minutes and seek medical aid if irritation persists.

**Inhalation – Avoid breathing dust, irritant:** Long term study has revealed no increase in the incidence of malignant or non-malignant respiratory diseases amongst workers exposed to fibres of the size used in GRP reinforcement. However, exposure to high levels of glass fibre may cause irritation to the mouth, nose and throat. The effect should be transitory and leave no permanent disability. Exposure control limit 5 mg/m<sup>3</sup>. Ref: HSE. Guidance note EH40/86.

**Ingestion – Do not swallow, irritant:** Unlikely, but could cause irritation. If swallowed do not induce vomiting, wash mouth with water then drink large amounts of water.

**Spillage – Non hazardous:** Collect, avoid causing dust. If there is severe dust, wear a dust mask.

**Waste disposal:** Is non-hazardous waste according to National/Local regulations.

**Handling and Storage:** Store in polythene bag under dry conditions. Moisture will adversely affect the product.

**Other Precautions:** Wear loose fitting clothing. Vacuum contaminated clothes, do not use compressed air.

Wash work clothes separately to avoid contamination of other articles.

**FIRE – Non-flammable.**

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## Health and Safety continued

### Catalyst

#### FIRST AID MEASURES:

**General:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in the recovery position and seek medical advice.

**Skin contact:** Remove contaminating clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser, afterwards apply a lanolin ointment.

**Eye contact:** Irrigate copiously with clean, fresh water for at least 15 minutes, alternate 2% NaCO<sub>3</sub>, holding the eyelids apart and seek medical advice.

**Ingestion:** If accidentally swallowed obtain immediate medical attention. Keep at rest. Drink water or milk, and **do not** induce vomiting.

#### FIRE-FIGHTING MEASURES

##### Extinguishing Media:

- recommended:** alcohol resistant foam, CO<sub>2</sub> powders, water spray
- not to be used:** waterjet.

**Recommendations:** Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

#### ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, perlite, vermiculite, chalk, kaolin, diatomaceous earth and place in container for disposal according to local regulations. Do not allow to enter drains or water courses.

Clean preferably with a detergent; avoid use of solvents.

If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

#### HANDLING AND STORAGE

**Handling:** Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid concentration higher than the occupational exposure limits.

Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Preparation may change electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area.

Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at works laws.

**Storage:** Store in accordance with local regulations. Observe label precautions. Store in original package, in cool, well ventilated place away from sources of heat and direct sunlight. Avoid higher storage temperature than 25°C. The product must never be stored together with accelerators such as dryers, heavy metal compounds etc. Avoid contact with rust.

Keep away from sources of ignition. Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### PERSONAL PROTECTION

**Respiratory protection:** Half mask, recommended filter type: for organic vapours. When spraying or working at high concentrations, use self-contained breathing apparatus.

**Hand protection:** Use resistant gloves of: butyl rubber, ethylene-vinylalcohol, Teflon. Barrier creams may help to protect the exposed areas of the skin; they should however not be applied once exposure has occurred.

**Eye protection:** Use safety eyewear designed to protect against splash of liquids. Splashes in the eyes may cause serious eye damage.

**Skin protection:** Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact.

#### DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses. Water and emptied containers should be handled according to local regulations.

### Material Safety Information

Please contact our sales office for Health and Safety information relating to the DRYSEAL system and associated products. The Company can provide comprehensive Material Safety Data Sheets.