# HYDROSEAL RX

## 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Details of the supplier of the data sheet
FIS Construction Products
44 Macadam Way
West Portway
Andover
SP10 3XW

sales@premcrete.com
www.premcrete.com

Emergency telephone number
+44 (0) 800 6191619
7.00am-5:00pm Mon-Fri

Product Name: Hydroseal RX

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Irritant Risk of serious damage to eyes.

NOTE Contains soluble chromium (VI) controlled by the addition of a reducing agent to no more than 2ppm by dry weight of cement when mixed with water, for a period of 12 months from the date of manufacture shown on this package under the stipulated storage conditions. Use of this product after the end of this period or under different storage conditions may increase the risk of an allergic reaction. PPE must still be worn.

## 3. HAZARD IDENTIFICATION

SUBSTANCES PRESENTING A HEALTH HAZARD WITHIN THE MEANING OF THE CHEMICALS (HAZARD INFORMATION & PACKAGING) REGULATIONS 1994. INGREDIENT CONCENTRATION CAS NUMBER HAZARD R. PHRASES %
Portland cement 25 (Part B) 65997-15-1 Xi R36/37/38-41
Silica flour < 7.5 (Part B) 14808-60-7
Hydrated lime < 2.0 (Part B) 1305-62-0
Sodium nitrite < 1.0 (Part B) 7632-00-0
Ground granulated blast furnace slag < 10.0 (Part B) 65996-69-2
Sodium molybdate < 1.0 (Part B white) 10102-40-6
1,2 benzisothiazolin-3-one < 0.05 (Part A) 2634-33-5
R36/37/38: Irritating to eyes, respiratory system and skin.
R41: Risk of serious damage to eyes.

## 4. FIRST AID MEASURES

INHALATION: Remove patient from exposure, keep warm and at rest. If dry powder has been inhaled, the nose and throat should be thoroughly irrigated with water for at least 20 minutes. If distress is felt after inhalation of vapours, summon medical aid. Inhalation of free silica over a prolonged period can give rise to fibrosis of the lungs.

SKIN CONTACT: Remove contaminated clothing. After contact with skin, wash immediately with plenty of clean water (S28). Repeated contact over a prolonged period may produce an allergic reaction. Seek medical attention if irritation persists.

EYE CONTACT: SPEED IS ESSENTIAL. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice (S26). Remove any large particles with cotton wool bud. Contact lenses should be removed. Eye wash stations should be available in areas where exposure is possible.

INGESTION: Do not induce vomiting. Wash mouth out with water and, if conscious, give plenty of water to drink. Seek medical attention.

NOTE If symptoms persist, seek medical advice.

## 5. FIRE– FIGHTING MEASURES

SUITABLE EXTINGUISHER MEDIA: Will not support combustion. Compatible with all standard firefighting techniques.

EXPOSURE HAZARDS: Fire or decomposition products may contain oxides of carbon. The powder releases alkalis on contact with water and chemically hardens.

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Ensure adequate ventilation. Wear suitable protective clothing, gloves and eyes face protection (S36/37/39). Avoid contact with eyes (S25). Do not breathe dust (S22).

SEE "EXPOSURE CONTROLS/PERSONAL PROTECTION"

ENVIRONMENTAL PRECAUTIONS: If material enters drains or sewers, dilute as much as possible with water. In case of contamination of streams, river or lakes, contact the National Rivers Authority.

CLEANING UP METHODS: Carefully sweep or vacuum up any mixed mortar and/or dry powder. Soak up polymer with sand or sawdust. Transfer to marked containers to await disposal. Wash away any residue with plenty of clean water.

## 7. HANDLING AND STORAGE

HANDLING: Wear suitable protective clothing, gloves and eye/face protection (S36/37/39). Eye wash stations should be available in areas where accidental exposure is possible. The normal precautions relating to handling chemicals must be observed. Use to minimise the creation of dust and ensure adequate ventilation to keep the airborne concentrations below the recommended exposure limits.

SEE “EXPOSURE CONTROLS/PERSONAL PROTECTION”

STORAGE: Store in dry frost-free conditions, in original containers. Protect from high temperatures (40° C+) for prolonged periods.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY: Normal conditions of ventilation are usually adequate. Wear a fine particle mask or respirator, or use local exhaust ventilation as necessary when mixing in confined areas with inadequate ventilation or whenever there is any risk of the exposure limits being exceeded. This applies not only to the user, but to all people who cannot be vacated from the work area.

HAND: Use heavy duty gloves. Gloves may degrade or be damaged according to different circumstances of use. Always ensure gloves you are using are in good condition. Barrier creams may help to protect exposed areas but are not substitutes for full physical protection.  They should not be applied once exposure has occurred.

EYE: Eye protection designed to protect against liquid splashes, conforming to EN 1166 Chemical Grade, should be worn when handling dry powder or when there is risk of material entering the eye. Eye protection is essential when handling alkaline material.

SKIN: Wear suitable overalls. Remove grossly contaminated clothing and wash skin with plenty of clean water. Practice good personal hygiene.

ALL PERSONAL PROTECTION EQUIPMENT MUST BE SELECTED TO MEET THE REQUIREMENTS OF THE COSHH REGULATIONS.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | Part A | Part B |
|---|---|---|
| Appearance | Milky white liquid | Fine Powder |
| Odour | Slight | None |
| pH | 9 | 12.5 when mixed with water |
| Relative density | 1.02 | |
| Bulk density | | 1100 - 1550 kg/m3 |
| Boiling point | 100ºC | |
| Flammability | Dewatered polymer readily burns | |
| Solubility in water | Fully miscible | Insoluble |
| Vapour pressure | 23 mbar | |

## 10. STABILITY AND REACTIVITY

STABLE UNDER NORMAL CONDITIONS OF STORAGE (SEE "HANDLING AND STORAGE")

CONDITIONS TO AVOID: Powder releases alkalis on contact with water and chemically hardens.

MATERIALS TO AVOID: Powder reacts vigorously with strong acids and, in the presence of moisture, will attack aluminium, lead and brass. Do not allow polymer to come into contact with metals or alloys that are liable to corrosion.

HAZARDOUS DECOMPOSITION PRODUCTS: May contain oxides of carbon.

HAZARDOUS POLYMERISATION: None known.

## 11. TOXOLOGICAL INFORMATION

INHALATION: Dust nuisance. Prolonged exposure to dust may cause irritation to the respiratory system. Prolonged exposure to product may cause inflammation of mucus membranes. Inhalation of free silica over a prolonged period can give rise to fibrosis of the lungs.

SKIN: In contact with water or body fluids, alkalis are released which can cause irritation of the skin. Continuous or repeated exposure over a period of time may cause burns or an allergic reaction. Levels of 1,2 benzisothiazolin-3-one below 500 ppm are not likely to cause skin sensitisation.

EYE: Risk of serious damage to eyes.

INGESTION: Small amounts are unlikely to cause any significant reaction. Larger doses may result in irritation or blockage of the gastro-intestinal tract. Unlikely to result in poisoning due to the large volume of material which must be ingested.  The engineering controls and personal protection equipment advised in this Safety Data Sheet are to ensure the occupational exposure limits are not exceeded. Should this happen to anyone within the affected area, there could be delayed adverse health effects.

## 12. ECOLOGICAL INFORMATION

Product should not be disposed of into rivers or other water courses without pre-treatment. Measures should be taken to prevent the release of dust to the environment. Appropriate additions of low concentrations to biological water treatment plants are not expected to cause any disturbances. Attention must be paid to local water treatment regulations.

AQUATIC TOXICITY RATING: LC50 aquatic toxicity rating not determined. The addition of cementitious materials to water will, however, cause the pH to rise and therefore be toxic to aquatic life in some circumstances.

## 13. DISPOSAL CONSIDERATIONS

The product is not classified as hazardous waste and is suitable for controlled waste site disposal. Do not allow into water courses or dispose of where ground or surface waters may be affected. Large quantities of polymer must be coagulated before disposal.

DISPOSE OF IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS

Further information on disposal methods and contractors is available from the National Association of Waste Disposal Contractors.

Tel: 020 7824 8882
Fax: 020 7824 8753

## 14. TRANSPORT INFORMATION

CONVEYANCE CLASSIFICATION: Not classified.

## 15. REGULATORY INFORMATION

EC HAZARD CLASSIFICATION: Xi Irritant.

RISK PHRASES: (Part B) R36/37/38 : Irritating to eyes, respiratory system and skin.  R41 - Risk of serious damage to eyes.

SAFETY PHRASES: S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  S28 - After contact with skin, wash immediately with plenty of soap and water.  S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

NOTE: Contains soluble chromium (VI) controlled by the addition of a reducing agent to no more than 2ppm by dry weight of cement when mixed with water, for a period of 12 months from the date of manufacture shown on this package under the stipulated storage conditions. Use of this product after the end of this period or under different storage conditions may increase the risk of an allergic reaction. PPE must still be worn.

OCCUPATIONAL EXPOSURE LIMITS AND STANDARDS ARE ADVISED IN PUBLICATION EH40 FROM THE HSE FOR THE PURPOSE OF REGULATION 7(1) OF THE COSHH REGULATIONS.

The above information is believed to be correct but not purport to be all inclusive and shall be used only as a guide.  This company shall not be held liable for any damage resulting from handling or from contact with the product.