



X280 DENSI PROOF REO PROTECT SAFETY DATA SHEET



Oxtek Australia Pty Ltd
ABN 41 164 792 036
Product: X280 Densi Proof Reo Protect
Date of Issue: July 2016
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SECTION 1 - IDENTIFICATION OF MATERIAL AND SUPPLIER

PRODUCER:	Oxtek Australia Pty Ltd.
ABN:	41 164 792 036.
ADDRESS:	3-174 Atlantic Drive Keysborough 3173.
TELEPHONE:	(+ 61 3) 9798 7534.
AH EMERGENCY TELEPHONE:	13 1126 (24 Hours) - Australian National Poisons Centre.
FAX:	(+61 3) 9798 6250
WEB PAGE:	www.oxtekaus.com
NEW ZEALAND SUPPLIER:	Protect Crete NZ Ltd.
ADDRESS:	PO BOX 10080, Rotorua Mail Centre, Rotorua 3046, New Zealand.
TELEPHONE:	(+ 64 9) 441 9003.
AH EMERGENCY TELEPHONE:	0800 POISON (0800 764 766) (24 Hours) - New Zealand National Poisons Centre.
Email:	sales@protectcretenz.co.nz
Product Name:	X280 Densi Proof Reo Protect
Proper Shipping Name:	Not applicable.
Product Use:	Inorganic binder for concrete treatment.
Manufacturer's Product Code:	Not applicable.
Creation Date:	20 November 2013
Revision Date:	v1 21 July 2016

SECTION 2 - HAZARDS IDENTIFICATION

AUSTRALIA:

This product is **not classified** as a **HAZARDOUS CHEMICAL** accordance with the WHS, and **not classified** as **DANGEROUS GOODS** according to the Australian Dangerous Goods (ADG) Code.

Dangerous Goods:	Not applicable.
Hazard Classes & Categories:	Not applicable.
Physical:	Not applicable.
Health:	Not applicable.
Environmental:	Not applicable.
Signal Word:	Not applicable.
Hazard Statements:	Not applicable.
Precautionary Statements:	
Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.
Pictogram:	Not applicable.

NEW ZEALAND:

This product is **not classified** as **HAZARDOUS** according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, and **not classified** as **DANGEROUS GOODS** for transport, according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

Dangerous Goods:	Not applicable.
HSNO Hazardous Class & Category:	Not applicable.
Signal Word:	Not applicable.
Hazard Statements:	Not applicable.
Precautionary Statements:	
Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.
Disposal:	Not applicable.
Pictogram:	Not applicable.



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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
Siliconate (Non-Hazardous)	Proprietary	< 10% w/w
Silicates (Non-Hazardous)	Proprietary	< 10-30% w/w
Other Ingredients (Non-Hazardous)	Proprietary	< 10% w/w
Water	7732-18-5	To 100% w/w
Total		100% w/w

SECTION 4 - FIRST AID MEASURES

Scheduled Poisons (AUSTRALIA):	Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons. (Phone Australia 13 1126) or a doctor (at once).
Scheduled Poisons (NEW ZEALAND):	New Zealand National Poisons Centre can provide additional assistance for scheduled poisons. Phone 0800 POISON or 0800 764 766 or a doctor at once.
First Aid Facilities Required:	Eye wash fountains and a general washing facility should be easily accessible in the immediate work area.
Inhalation:	Not expected to be an inhalation hazard. Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin Contact:	For gross contamination immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of running water. Immediately remove contaminated clothing and wash before reuse. If irritation develops seek medical attention.
Eye Contact:	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. If irritation develops seek medical attention.
Ingestion (Swallowed):	Immediately rinse out mouth with water. If swallowed DO NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious patient. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration into the lungs. Get to a doctor or hospital quickly.
Advice to Doctor:	No specific antidote. Treat symptomatically. Poisons Information Centre in each Australian State capital city or New Zealand National Poisons Centre can provide additional assistance for scheduled poisons.

SECTION 5 - FIRE FIGHTING MEASURES

	Product itself is not combustible.
Hazards from Combustion	Define extinguishing measures according to neighbouring conditions.
Products:	No special protective equipment measures required.
Suitable Extinguishing Media:	Not applicable.
Precautions for Fire Fighting:	Not applicable.
Hazchem Code:	Product is Non-Flammable according to the Australian Code for the Transport of Dangerous Goods by Road and Rail and the New Zealand Standard NZS 5433:2012
Flash Point:	Transport of Dangerous Goods on Land. No special measures for fire and explosion protection. No dangerous decomposition products known.
Flammability:	

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spills:	
Personal Precautions:	In case of spill, particular danger of slipping on leaked/spilled product. Isolate hazard area and deny entry. Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental Precautions:	Do not allow to enter drainage system, surface or ground water. In the event of product entering waters or drainage system, or polluting soils or plants contact the Environmental Protection Authority or your local Waste Management Authority.
Methods of cleaning up / of removing:	Spilt material should be absorbed into dry, inert material (e.g. sand, Vermiculite, diatomite, acid binders, universal binders, sawdust etc.), which then can be put into appropriately labeled drums. The wasted material can be disposed of by incineration (preferably high temperature) by an approved agent according to State, Territory and/or Local government regulations.

SECTION 7 - HANDLING AND STORAGE

Handling:	Avoid all personal contact, including skin and eye contact and contamination of clothing. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use.
Information about Fire and Explosion Protection:	No special measures required.
General:	Store away from incompatible substances including acids and light alloys. Keep containers closed at all times.
Storage Class:	Corrosive storage.
Requirements for Storerooms & Receptacles:	Do not use light alloy receptacles.
Unsuitable Materials for Receptacles:	Aluminium, zinc, glass or ceramic.
Suitable Materials for Receptacles & Pipes:	Steel or stainless steel. Use polyolefin receptacles.
Further Information about Storage Conditions:	Protect from frost.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits(AUSTRALIA):	National Occupational Exposure Limits, as published by Safe Work Australia: Time-weighted Average (TWA): None established for product. Short Term Exposure Limit (STEL): None established for product.
Exposure Limits (NEW ZEALAND):	Workplace Exposure Standards as published by The Workplace Group of the Department of Labour, Department of Labour, New Zealand: Time-weighted Average (TWA): None established for product. Short Term Exposure Limit (STEL): None established for product.
Engineering Controls:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Product is recommended to be applied using a spray apparatus. In outdoor application no special ventilation or breathing equipment is required. If applied indoors, extra mechanical ventilation may be required to facilitate more comfortable breathing and minimize the risk of inhalation of vapours.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONTINUED)

Personal Protection:

General protective & hygiene measures: DO NOT SMOKE IN WORK AREA!

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of each shift and before eating, smoking and using the toilet. Avoid contact with the eyes and skin. Wash promptly if skin becomes wet or contaminated.

Respiratory protective equipment: No specific recommendation made but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Eye protection: The use of face shield protection is recommended to avoid airborne particles contacting eyes and skin during spraying. Otherwise, the use of chemical goggles or safety glasses with side shield protection is recommended.

Hand protection: Alkaline resistant gloves (e.g. Butyl, Natural Rubber Latex with small amount of Polychloroprene Latex, Polychloroprene, Nitrile, Polyvinyl Chloride or PVC, Polyvinyl Alcohol or PVAL gloves complying with AS 2161) are recommended.

Clothing: Suitable protective clothing to prevent any possibility of skin contact.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Low viscosity clear liquid.
Odour:	Odourless.
pH:	Ca. 11.4.
Initial Boiling Point / Boiling	> 100°C @ 760 mm Hg.
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Freezing/ Melting Point:	Not available.
Solubility in Water:	Fully miscible.
Specific Gravity:	Ca. 1.10 @ 20°C.
Flash point:	Not applicable.
Auto Ignition Temperature:	Product is not self igniting.
Flammability Limits:	Not applicable.
Evaporation Rate:	Not available.
Viscosity:	Low.
Volatile organic Compounds: (VOC) Content	0% w/w.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal temperatures and pressure.
Thermal Decomposition:	No decomposition if used according to specifications.
Dangerous Reactions:	Strong exothermic reaction with acids. Reacts with light alloys to form hydrogen.
Conditions to Avoid:	Avoid contact with incompatible materials.
Materials to Avoid:	Acids, light alloys.
Hazardous Decomposition Products:	No dangerous decomposition products known.

SECTION 11 - TOXICOLOGY INFORMATION

Health Effects:

Acute:

General:

Alkaline product.

Acute Toxicity Data (Oral):

No data for product. On basis of ingredients, LD₅₀ (Oral, rat) Acute Toxicity for product calculated at > 5000 mg/kg.

Acute Toxicity Data (Dermal):

No data for product.

Acute Toxicity Data (Inhalation):

No data for product.

Skin corrosion/irritation:

Slightly irritant.

Serious eye damage/irritation:

Slightly irritant.

Respiratory or skin sensitization:

No sensitizing effects known.

Germ cell mutagenicity:

No data for product.

Carcinogenicity:

No data for product.

Reproductive Toxicity:

No data for product.

Specific Target Organ Toxicity

(STOT) – single exposure:

No data for product.

Specific Target Organ Toxicity

(STOT) – repeated exposure:

No data for product.

Aspiration Hazard:

No data for product.

Chronic Toxicity Data:

No data for product.

SECTION 12 - ECOLOGICAL INFORMATION

Fish Toxicity:

None available for product.

Algae Toxicity:

None available for product.

Invertebrates Toxicity:

None available for product.

Toxicity to Microorganisms:

None available for product.

OECD Biological Degradation:

None available for product.

Information about Elimination

(Persistence & Degradability):

Readily eliminable from water. Inorganic product; biotic degradation not applicable.

Bioaccumulative Potential:

No data available for product, on basis of ingredients not expected to be bioaccumulative.

Behaviour in Sewage

The product is an alkaline solution. Neutralization is normally necessary before waste water is discharged into sewage treatment plants.

Processing Plants:

General:

Not regarded as dangerous for the environment. Product is fully miscible with water.

SECTION 13 - DISPOSAL CONSIDERATIONS

Product:

Recommended that it can be disposed off with rubble after solidification following consultation with the waste disposal facility operator according to State, Territory and/or Local government regulations, pertinent authorities and adhering to the necessary technical regulations.

Uncleaned Packaging:

Recommended to be disposed of according to official regulations.
Recommended cleansing agent is water, if necessary with cleansing agents.

SECTION 14 - TRANSPORT INFORMATION

General:

This product is not classified as DANGEROUS GOODS according to the Australian Code for the Transport of Dangerous Goods by Road and Rail, and the Land Transport Rule: Dangerous Goods 2005 (New Zealand).

UN Number:

Not applicable.

UN Proper Shipping Name:

Not applicable.

ADG Class:

Not applicable.

Packing Group:

Not applicable.

HAZCHEM Code:

Not applicable.

IERG:

Not applicable.



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SECTION 15 - REGULATORY INFORMATION

SUSMP:	No Poisons Schedule number allocated.
AICS:	All ingredients present on AICS.
HSNO:	This product is not classified as HAZARDOUS according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and therefore does not require any ERMA Register Approval Number.
NZIoC:	All ingredients present on NZIoC.

SECTION 16 - OTHER INFORMATION

Acronyms and Comments:	
ADG Code:	Australian Code for the Transport of Dangerous Goods by Road and Rail.
AICS:	Australian Inventory of Chemical Substances.
CAS Number:	Chemical Abstracts Service Registry Number.
EPA:	The Environmental Protection Authority (EPA) in New Zealand is responsible for national environmental regulatory functions currently spread across Government. It processes matters of national significance under the Resource Management Act, undertakes all functions under the HSNO Act, undertakes permitting and exemption functions under the Ozone Layer Protection Act, permitting functions relating to the import and export of hazardous waste, and advises on the development of National Environmental Standards.
ERMA:	Environmental Risk Management Authority in New Zealand, now replaced by EPA.
HAZCHEM:	An emergency action code of numbers and letters which gives information to emergency services.
HSNO:	The Hazardous Substances and New Organisms Act in New Zealand is administered by the EPA, and covers all Hazardous Substances and New Organisms.
IERG:	Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB 76:2010 Standards New Zealand Handbook).
NZIoC:	The New Zealand Inventory of Chemicals is a database of all the hazardous chemical components of products approved under group standards. It also includes a number of non-hazardous chemical components.
NZS:	New Zealand Standards which are available from Standards New Zealand, Private Bag 2439, Wellington 6140 New Zealand.
SAA:	Australian Standards which are available from SAI Global Limited, Information Services, GPO Box 5420, Sydney NSW 2001.
Safe Work Australia:	Safe Work Australia was formerly the Australian Safety and Compensation Council, which included the National Occupational Health and Safety Commission (NOHSC).
SDS:	Safety Data Sheet.
STEL:	Exposure standard - short term exposure limit, a 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.
SUSMP:	Standard for the Uniform Scheduling of Medicines and Poisons.
TWA:	Exposure standard - time-weighted average, the average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day working week.



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SECTION 16 - OTHER INFORMATION (CONTINUED)

WHS:	Model work health and safety legislation introduced by the Australian government which consists of an integrated package of a model Work Health and Safety (WHS) Act, supported by model Work Health and Safety (WHS) Regulations, model Codes of Practice and a National Compliance and Enforcement Policy. The WHS Regulations implement a new system of chemical hazard classification, labeling and safety data sheet requirements based on the GHS.
Issue Date:	21 st July 2016.
Supersedes Issue Date:	20 th November 2013.
Revision Information:	Contact information, (version 1).
Contact Point:	Regulatory Affairs Manager.
Telephone:	(+61 3) 9587 3100 (Australia).
Note:	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.
Disclaimer:	This SDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since Oxtek Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. This SDS does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.
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