

ABSOLUTELY ECO-FRIENDLY



GREENCOAT™
ECO PAINT

FIREGUARD

TECHNICAL AND MATERIAL SAFETY DATA SHEET

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SUPPLIER IDENTIFICATION AND INFORMATION

Manufacturer name	GREENCOAT
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PRODUCT IDENTIFICATION

Product name	Fireguard Intumescent Coating
Product Description	GREENCOAT Fireguard is a specialised, versatile, water- based, intumescent coating designed for passive fire protection. Application methods between 30-180 minutes. The product is environmentally friendly and does not emit noxious fumes and odours during and after application or during fire prevention. No sheen / matt finish only available in white
White Date Issued	13/11/2015 CAS no.: n/a EC no.: n/a
UN No.	1263 SAPMA: 4-H-C
Principal Characteristics	Tested in accordance with BS 476: Part 21 Easy application properties Minimal VOC's - EPA Compliant As an intumescent paint on wood, steel, concrete, etc.
Intended use	Recommended for on-site application. Off-site applications must be top coated before being taken outside and carefully handled. Exterior substrates should be overcoated with a recommended GREENCOAT topcoat. When using topcoats please ensure to check compatibility with GREENCOAT before application.

COMPOSITION

EC Classification: Propriety formulation not classified as hazardous No significant quantity of classified hazardous substances present.

(CL/RL = Controlled/Recommended level 'S' = Skin annotation)

TECHNICAL DATA:	
% Solids by Volume	55 ± 2%
Drying Time - Do not apply below 5°C, temperature above 10°C preferred @650 microns DFT (RH 70%):	Dust free: 10°C 20°C 25°C Min overcoating: 12 hrs 4 hrs 3 hrs *Overcoating: 48 hrs 24 hrs 20 hrs
Theoretical Spreading Rate DFT	4-6 m ² /litre @ 250 microns dry
Colour	Off white
Flash point	Not applicable
Thinner	Water (but not required)
Specific Gravity	1.27Kg/litre
Pot life at 23°C	6 months in closed containers
Cleaner	Water
Thickness Recommended	Wet microns: 370 - 5300 Dry microns: 250 - 3600
Application	Suitable to apply with a brush, roller and/or spray gun.
De-canning Sizes	1Litre 5 Litre / 20 Litre

ACCIDENTAL RELEASE MEASURES

Hazard identification
 SAPMA Health Rating: 4-MINIMAL - No great risk to health

Primary route of exposure:	
Eye contact	No direct hazard is expected but possible contact with any chemical must always be avoided.
Skin contact	No hazard expected if used in moderation.
Ingestion	Irritating and nauseating
Inhalation	Avoid exposure to vapours, fumes and mists.

No carcinogenic, mutagenic or genetic effects established
 May have short term environmental effects. Contain, monitor & remove.

FIRST AID MEASURES

Eye contact	In case of any contact and discomfort rinse well with water and seek medical advice.
Skin contact	Always wash after handling chemical substances.
Ingestion	Wash mouth with plenty of water. Do NOT induce vomiting. Seek medical attention.
Inhalation	Move to fresh air.

FIRE-FIGHTING MEASURES

When applied on surfaces: Non-combustible, could act to retard the spread of flame.

- SABS test: 653/82156/G3503
- Spread of flame index
- Singapore Institute of Standards and Industrial Research test; G 158352/MW Spread of flame index: 0.0
- British Standard 478 part 7 - 1971 - class one (exceeding class 3 limits)
- SABS test: 321/85151/G152.

Smoke toxicity index	Toxic gas factor - 1.0.
When cured (not applied)	Can burn.
Extinguishing agents	Normal foam, powder, water spray, or carbon dioxide (CO2).

Dried residues - combustible with toxic fumes. No direct explosion hazard expected.

SEE ALSO SECTIONS 5, 8, 13 Contain & collect. Keep out of drains and sewers.

CONT. Overleaf...

Personal precautions	Follow normal safety precautions and if spillage occurs in a confined space, ensure there is adequate ventilation. There is no LD 50 data available for the products and the concentrations of particularly hazardous materials are so low that they are not considered a significant hazard under the recommended conditions of use.
Environmental precautions	No environmental hazard when applied on surfaces or cured (solidified). No threat to fresh or seawater animal life.
Methods for cleaning up	Contain the spillage with sand or earth and take up spilled material (if possible) on a non-flammable absorbent (sand, earth, diatomite, chemical binders) and put in an appropriate container. Label the container with the waste designation, and dispose according to the legislation – do not use solvent.

HANDLING AND STORAGE

Store separately from any reactive substances - oxidisers in particular.

Safe handling advice	Avoid direct contact with skin and eyes. Avoid inhalation and ingestion. Take personal protective measures and follow the protection and safety regulations. When working with coating products in a spray cabin, sufficient control of aerosols are unlikely and breathing apparatus such as respirators can be worn during spraying if preferred.
Measure to prevent fire	No specific preventative measures are required but keep the application area well ventilated.
Requirements for storage	Store in original containers (if possible) and keep tightly closed in a cool, dry, well-ventilated area. Although the products are not defined as dangerous goods, protect the products from direct extreme heat such as sources of ignition. Avoid direct sunlight and do not store in conditions below freeze-point.
Shelf life	±2 years if well sealed.

EXPOSURE CONTROLS / PERSONAL PROTECTION

SAPMA Rating: 4-H-C PPR

Personal protection:	
Inhalation	In case of insufficient ventilation, use suitable respiratory protection.
Eye Protection	Avoid direct contact. Never touch eyes with dirty hands or gloves.
Skin protection	Use only as directed.
Ingestion	Observe the rules for hygiene. Wash before eating, drinking or smoking.

STABILITY AND REACTIVITY

Stable under normal conditions	
No reaction with fire-fighting water	

PHYSICAL AND CHEMICAL PROPERTIES

Chemical class	Non-hazardous material
Description	Viscous liquid
Smell	Pungent
Flash point (C)	n/a

TOXICOLOGICAL INFORMATION / HEALTH EFFECTS

Carcinogenicity	No known effects
Mutagenicity	No known effects
Genetic effects	No known effects

ECOLOGICAL INFORMATION

May have short term environmental effects. Contain, monitor & remove.

Aquatic toxicity	No known effects
Biodegradability	Products are considered highly biodegradable, but not tested
Bioaccumulation	No known effects
Mobility	Not tested
Additional information	The product is environmentally friendly with a very low VOC (Volatile Organic Compound) as tested by the Huntingdon / SWL laboratories, Report number: 261394 - 23093 and described by America as a revolutionary breakthrough.

DISPOSAL CONSIDERATION

Use reputable waste disposal contractors. Exercise caution in disposal of used containers.

TRANSPORT INFORMATION

ADR / FID (Road)	Not dangerous materials according to these regulations.
GGVSee / MDG (Maritime)	Not dangerous materials according to these regulations.
IATA (AIR)	Not dangerous materials according to these regulations.

REGULATORY INFORMATION / EEC CLASSIFICATION

EC no.	n/a
EC Classification	Not classified as hazardous
S2	Keep out of reach of children. (Retail sales items)

OTHER INFORMATION

All data is based on the current knowledge of GREENCOAT and describes the product with reference to safety data and is therefore not intended to guarantee certain properties.

In case of any discomfort always seek medical advice.



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