

ABSOLUTELY ECO-FRIENDLY



GREENCOAT™
ECO PAINT

WOODGUARD

TECHNICAL AND MATERIAL SAFETY DATA SHEET

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SUPPLIER IDENTIFICATION AND INFORMATION

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PRODUCT IDENTIFICATION

Product name	Woodguard
Product Description	GREENCOAT Woodguard is a water-based, pure acrylic coating for woodwork. It contains preservatives, has excellent penetrating properties, is extremely flexible and has outstanding weathering properties. The product is environmentally-friendly and does not emit noxious fumes during and after applications. Water clear, semi-gloss finish available in 9 standard wood varnish colours. Standard colours available is mahogany, antique white, Imbuia, dark oak, light oak, sapele, oregon, rose wood, and teak.
Principal Characteristics	<ul style="list-style-type: none"> • Long lasting UV protection • Built in fire retardant properties • Optimum application temperature for water-based wood coatings is 25°C • Substrate temperature should never be below 10°C • Needs minimal maintenance due to use of unique UV stabilisers
Intended use	Excellent for woodwork and all wood surfaces requiring protection.

COMPOSITION

TECHNICAL DATA	
% Solids content	38 +/-1%
Gloss	Matt to gloss
Theoretical Spreading Rate DFT	10 - 12 m ² per litre
Colour	Normally clear. Dependent on colour, milky when liquid.
Water Resistance	Excellent
Chemical Resistance	Good
Abrasion Resistance	Good
Stain Resistance	Good
Flexibility	Excellent
Storage	<ul style="list-style-type: none"> • Protect from frost and heat. Store in tightly closed containers and reseal tightly after opening. Use product in sequence of date of arrival. • Recommended storage temperature is +5°C to +35°C. • Do not allow product to freeze.
Cleaner	Water and mild household detergent.
Application	Suitable to apply with a brush, roller and/or spray gun.
De-canning Sizes	1 Litre, 5 Litre and 20 Litre

HAZARD IDENTIFICATION

Primary route of exposure:	
Inhalation	No effects observed during application in confined space.
Eye contact	Direct contact with material can cause slight irritation.
Skin contact	Prolonged and repeated contact causes no irritation. No specific symbols are required for the use of the products - the products are not combustible or flammable and do not have specific acute, chronic or toxic effects on humans, nor are they harmful to the natural environment when released.

FIRST AID MEASURES

Eye contact	Flush eyes with large amount of water, if irritation persists, consult a physician.
Skin contact	Wash the skin with soap and water.
Ingestion	Drink plenty of water.

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.
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Smoke toxicity index:	Toxic gas factor - 1.0.
When cured (not applied)	Can burn.
Extinguishing agents	Normal foam, powder, water spray, or carbon dioxide (CO ₂).

ACCIDENTAL RELEASE MEASURES

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 to surfaces or cured (solidified). No threat to fresh or marine animal life.
Methods for cleaning up	Contain the spillage with sand or earth. 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

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	<ul style="list-style-type: none"> • 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 freezing point.
Shelf life	±2 years if well-sealed.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limit:

OHSA PEL 15 mg/m (total dust), 5 mg/m (respiration fraction)

Personal protection:	
Respiratory protection	Respiratory programme must be followed whenever workplace conditions warrant a respirator's use. Not required if airborne concentrations are maintained below exposure limit listed in exposure limit information.
Eye Protection	Safety glasses with impenetrable side shields are recommend.
Skin protection	Gloves may be used if required, but no known effects have been observed.

STABILITY AND REACTIVITY

Stability	Stable when following the handling and storage recommendations.
Conditions to avoid	Avoid temperatures above 177°C, direct sunlight and below freezing point for storage conditions.
Incompatibility	None known
Hazardous decomposition	By fire – carbon dioxide (CO ₂) and carbon monoxide (CO).

PHYSICAL AND CHEMICAL PROPERTIES

Reactivity	Salt fog resistant
UV Resistance/Weathering	75 000 hours – No visible breakdown
Density	> 1 gm/cm
Vapour density	Heavier than air
Solubility	Miscible in / with water prior to cure
Evaporation rate	< 1 water (see section 5)

TOXICOLOGICAL INFORMATION / HEALTH EFFECTS

Acute toxicity	No known effects – health hazard rating in group 4 (minimal) of the Recommended Practice (ARP 006: 1991) guideline
Skin contact	No known effects
Eye contact	Splashes can cause eye irritation
Chronic toxicity	No known effects
Carcinogenicity	No known effects
Mutagenicity	No known effects
Neurotoxicity	No known effects
Reproductive hazards	No known effects
Additional information	The products have not been tested, but their classifications calculated according to conventional methods from the dangerous substances regulations. The products have been used to paint aquariums that house tropical fish and ponds that house Koi fish with no effects at all. The products do not emit noxious fumes or odour during and after application.

ECOLOGICAL INFORMATION

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

Disposal key	080103 – EWC waste from water-based paints.
Disposal method	Hand over empty packaging to an authorised disposal company / waste company – the waste regulations of the appropriate authorities are to be followed.

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

EEC hazard classification	None of the substances of the products are classified by the EEC as hazardous.
TSCA certification	All of the substances in the products are listed, or exempt from listing, on the TSCA.
National legislation	Pay attention to the Occupational Health and Safety Act.

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.

APPLICATION INSTRUCTIONS AND TECHNICAL DATA

- These instructions are not intended to show product recommendations for specific services.
- They are issued as an aid in determining correct surface preparation and application procedures.
- It is assumed that the proper recommendations have been made.
- These instructions should be followed closely to obtain the maximum service from the material.

Features Included:

- Quick drying - overcoat 30 - 60 minutes
- Excellent flexibility - will never harden
- Ultra violet and weather resistant proof
- Good abrasion resistance
- Exceptional performance in wet weather
- Colour fastness
- Zero flame spread

Excellent resistance to:

Acids, alkalis, water, salt solutions and solvents.

Temperature resistance:

Minus 50°C - 210°C. At 110°C loss of gloss is observed and discoloration takes place, without loss of film integrity.

Compatible Coatings:

A test patch is recommended before use of most coatings.
Contact your GREENCOAT dealer for specific information.

REQUIREMENTS FOR STORAGE AND APPLICATION

Parameter	Storage (Unopened)	Paint	Substrate	Environment
% RH (Relative Humidity)	100 % Maximum	-	Min 2°C above Dew Point	85 % Max
Temp °C Min	5°C	5°C	5°C	5°C
Temp °C Min	40°C	40°C	40°C	40°C

SURFACE PREPARATION:

- Surfaces must be cleaned with GREENCOAT Greenwash before application to help remove all loose material, particles and contaminations.
- Previously painted and primed surfaces must be cleaned by removing all grease, paint and loose friable dirt.
- No other paint should be applied over Zero VOC Environmental Maintenance Technology Products as this will defeat the purpose of the technology.

APPLICATION:

Suitable to apply by pump sprayer.



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