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TECHNICAL DATA

Roofing Topcoat

DESCRIPTION

Unsaturated Polyester Resin in Styrene Monomer
Isophthalic
Medium Reactivity
Pigmented GREY*
Light Stabilised

APPLICATION

Brush topcoat or roller applied

CHARACTERISTICS

Medium chemical resistance
Medium heat resistance
Resilient
High Elongation

USE AREAS

Roofing

SPECIFICATION

HIDE Complete at 500 micron

Appearance - Grey Thixotropic Liquid

TYPICAL PROPERTIES

25°C, 1.8% MEK Peroxide
Gel Time 8-12 minutes
Shelf Life 6 month
Viscosity 25°C RVT 180-230 poise
Spindle No 5 @ 5rpm
Gel time will vary depending on Winter or Summer grade.

CATALYST

CUROX M400
BUTANOX HBO50- AKZO CHEMIE
BUTANOX LPT - AKZO CHEMIE

HANDLING PRECAUTIONS AND STORAGE

DO NOT APPLY TO SUBSTRATES OVER 45°C. IT MAY RESULT IN SOME SURFACE TACK/ UNDERCURE.

Diamond resins which contain styrene monomer, an irritant liquid with a flash point below 32°C (90°F), are in general subject to the Highly Flammable Liquids and Liquid Petroleum Gases Regulations 1972. The resins should be stored cool, away from direct sunlight in closed containers (such as the containers in which they are supplied) if maximum shelf life is to be maintained. The quantity of styrene vapour in the working atmosphere should not exceed the Occupational Exposure Limit of 100ppm and when stored in bulk, adequate venting of large tanks is recommended together with a storage temperature not exceeding 20°C (68°F). It is preferable to wear gloves/goggles when handling polyester resin solutions to guard against any possible skin/eye irritation arising from the presence of styrene.

***NOTE:** While every attempt is made to ensure colour consistency, there may be some shade differences from batch to batch. A small brush stroke of the topcoat is applied to each can to show the colour of the contents. It is recommended that you order your topcoat in bulk to ensure consistency between cans. This material is NOT fire retardent.



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SAFETY DATA SHEET

Roofing Topcoat

1. EMERGENCY TELEPHONE NUMBERS

01305 766 703

2. TRADE NAME

Diamond Roofing Topcoat

CHEMICAL NAME (PRODUCT TYPE)

Pigmented unsaturated polyester resin in Styrene

3. PHYSICAL PROPERTIES

Viscous liquid with characteristic odour of Styrene

Solid	Liquid*	Gas	Paste	Thixotropic
3a) Boiling Point °C 145°C		3b) Melting Point °C Not applicable		3c) Specific Gravity at 20°C 1.2
3d) Miscibility in Water Miscibility *** Immiscible Partially Miscibility		3e) Flash Point (Closed Cup) 31°C (88°C)		3f) Total Lead Content ppm Zero
3g) Explosion Limits in Volume % in air Lower: 1.1 Upper: 6.1		3h) Spontaneous Combustion Temperature 490°C		3i) Acidity/Alkalinity/pH -

4. TOXICOLOGICAL DATA

4a) Threshold Limit Value

(9TLV-8hrs TWA)

Styrene (CAS 100-42-5) 100ppm

Source

Threshold limit values and biological exposure indices-current edition American Conference of Governmental Industrial Hygienists

4b) Occupational Exposure Limits (OEL)

Health & Safety Executive Guidance Notes EH40

Short Term Exposure Limit 10 min TWA value

	ppm	mg m ⁻³	ppm	mg m ⁻³
Styrene (max exposure limit)	100	420	250	1050

4c) Inhalation

4d) Ingestion



Odour detectable at 0.25 ppm.

Severe irritation and symptoms similar to inhalation.

At 200-400 there is a transient irritant effect on nasal passages.

At 400-1000ppm increasing systematic effects such as dizziness, nausea and headaches.

At 800ppm and over becomes intolerable to mucous membranes.

At 10,000 and over may cause death in less than one hour.

4e) Skin Contact

Irritant and defatting. May cause dermatitis and permit bacterial attack.

4f) Eye Contact

Vapour at 200-400ppm has transient irritating effect on the eyes. Splashes extremely irritant and dangerous.

5. STORAGE AND HANDLING

5a) Environmental Health Hazards

None known other than stated in this document.

5b) Dangerous Decomposition Products

Emits acrid smoke and irritating fumes when heated to decomposition.

5c) Storage

Store in closed container under dry, cool conditions. Maximum recommended storage time is 6 months recommended in technical data sheet.

5d) Conditions for Opened Drums

Will react vigorously with oxidising agents. Containers should be re-closed immediately after use and re-stored under dry, cool conditions.

5e) It is recommended that the following should be worn:

X	Gloves	X	Safety spectacles	X	Face masks
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A GOOD STANDARD OF PERSONAL AND INDUSTRIAL HYGIENE SHOULD BE MAINTAINED AT ALL TIMES.

5f) Ventilation

Efficient ventilation is required in working area. Solvent vapour can form explosive mixture with air.

5g) Spillages

Should be soaked up with absorbent inert material such as sand or earth and collected for disposal in closed containers.

5h) Empty Drums

Empty drums may contain resin residue and care should be taken to avoid inhalation and eye or skin contact. There may also be solvent vapour present. Store away from sources of ignition and oxidising agents.

5i) Waste Disposal

Notifiable waste. Dump or burn under controlled conditions. Contact local waste disposal authority for advice.

6. FIRE - EMERGENCY ACTION - CALL FIRE BRIGADE IMMEDIATELY

Extinguishing Method

X	Carbon Dioxide	X	Dry Chemical	X	Foam	Water
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7. Supplementary information attached

a Technical Data Sheet

8. This Health and Safety Product Information Sheet has been approved by: