

CROMASOL (WHITE)

Issue 3 - October 2005 - 01/020

Description:

Cromasol is a superior, brilliant white, alcohol based, solar reflective coating and when applied to a variety of roofing substrates, provides lasting protection against UV degradation and solar heat gain. It is a ready to use product and should not be diluted.

It is specifically manufactured for use on mastic asphalt but is also suitable for use on BS747 roofing felts fully cured and bituminous liquid roof coatings as used in remedial roof repair applications.

Cromasol does not attack bituminous substrates therefore preventing softening of asphalt and Associated leaching into the drying film. The solvent-resin blend has been purposely chosen to ensure this.

The product is suitable for use on roofs susceptible to ponding, as Cromasol is capable to withstand complete immersion in water for long periods. Once applied it is completely water resistant (unlike water based reflective paints), even where conditions turn to rain before the film has cured.

Coverage Rates:

Coverage varies according to the type of surface. For smooth surfaces, a maximum coverage of 6m²/litre/coat is typical. For rough and uneven surfaces, coverage will reduce. Coverage rates may vary as a result of extreme changes in external temperatures.

Colour:

White

Surface Preparation:

All surfaces should be clean, dry and free from deleterious matter, dust and grit. Lichen and algae etc. should be removed using Moss & Mould Remover prior to the application of Cromasol. Surfaces should be structurally sound and any blisters in existing felt should be split, dried and rebonded and sealed. Heavily oxidised bituminous surfaces as well as porous or friable surfaces should be primed with one coat of Cromar Bituminous Primer, after which they must be left until hard and free from solvents. Before applying Cromasol, newly applied asphalt and other bituminous surfaces should be allowed to weather for a period of 28 days. For existing mineral or rough surfaces, greater attention to dirt removal should be paid due to difficulties in dislodging dirt and organic growth. It is essential that roof surfaces that pond are thoroughly cleaned.

Application Instructions:

Apply Cromasol when the surface to be treated is dry and both surface and ambient temperatures are between 5°C and 35°C. Before applying, ensure the contents of the containers are thoroughly mixed, as failure to do this may result in an uneven appearance. Mix regularly throughout application. Apply by roller, two coats of Cromasol to the prepared surface, allowing drying time between each applications. Where possible, the second coat should be applied at right angles to the direction of the first coat. The coating may also be applied by brush, however extra care must be taken, as heavier applications often tend to occur.

Cleaning Tools:

Tools may be cleaned using White Spirit.

Container Sizes:

20 kg

Storage:

Cromasol should be stored in dry conditions away from direct sunlight and sources of ignition. Temperatures should be between 8°C - 25°C. Part used containers should be tightly re-sealed.

Health & Safety:

Please refer to health and safety data sheet on Cromasol.

Further Information:

In the event of further queries or problems concerning the use of this product, please contact the address below:

All products should be sold in accordance with the manufacturer's instructions. No responsibility can be taken by the manufacturer, where conditions of use are beyond our control. Cromar Building Products Limited products are available for sale in accordance with Cromar Building Products Limited standard conditions of sale, which is available upon request. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use, and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.

MATERIAL SAFETY DATA SHEET

CROMASOL

Date of issue: September 2001 Version 2

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1. Identification of the product

Chemical Nature: Solution of Acrylic Resin and Pigments in Industrial Methylated Spirits.
Company Identification: Cromasol (White and Grey)

2. Composition/Information on Ingredients

<u>CAS No</u>	<u>Chemical name</u>	<u>Weight %.</u>	<u>Symbol & R-phrases</u>
64-17-5	Ethanol	40	F R11
67-56-1	Methanol	<1.6	T, F R11, 23/25

3. Hazard Identification

The product is a highly flammable liquid. It should not be allowed on the skin, and exposure to the vapour should be avoided.

Health Effects – Eyes	Contact with undiluted product rapidly causes severe irritation, pain and redness. Vapour may cause conjunctivitis or corneal damage.
Health Effects – Skin	Repeated or prolonged exposure may result in de-fatting of the skin leading to irritation and dermatitis.
Health Effects – Ingestion	Swallowing will have the following effects: severe irritation of the mouth, throat and digestive tract. Aspiration during swallowing or vomiting may severely damage the lungs. Contains toxic component.
Health Effects – Inhalation	Exposure to vapour may have the following effects: irritation of nose, throat and respiratory tract. Coughing, tightness of chest and pain may result. Contains toxic component.

4. First Aid Measures

Skin Contact:	Immediately remove contaminated clothing, taking care not to contaminate unaffected areas. Wash affected with water for at least 15 minutes. If irritation persists obtain medical advice. Contaminated clothing must be laundered before re-use. Discard contaminated leatherwear.
Eye Contact:	Rinse immediately with water for at least 15 minutes holding the eyelid open; get medical attention immediately.
Inhalation:	Move affected person to fresh air. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. In case of irritation to the respiratory system or mucous membranes, or if you feel unwell or in case of prolonged exposure, get medical attention.

Ingestion: Immediately rinse the mouth with water. DO NOT INDUCE VOMITING. Keep warm and at rest. If swallowing has occurred drink water in small sips. Obtain medical attention immediately. Show this Safety Data Sheet.

Advice to Physicians: Treat symptomatically.

5. Fire Fighting Measures

Suitable Extinguishing Media: Water mist; Carbon Dioxide; Foam; Dry Powder.

Unsuitable Extinguishing Media: DO NOT USE HIGH PRESSURE WATER JET.

Exposure Hazards: Thermal decomposition or burning may release oxides of carbon and other toxic gases or vapours.

Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulation.

Protective Equipment: Use full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions: Shut off all ignition sources. Avoid contact with skin, eyes and clothing. Wear suitable protective clothing (including respiratory protection).

Environmental precautions: Prevent contamination of soil, drains and surface waters by use of temporary bund.

Methods for cleaning: Take up with absorbent, inert material and place in suitable and closed container for disposal.

7. Handling and Storage

Handling: Avoid contact with skin, eyes and clothing. Avoid inhaling vapour, ensure good ventilation and local exhaust. Emergency shower and eye wash facilities should be readily available. Do not eat, drink or smoke at the workplace. If you feel unwell seek medical advice (show label where possible).

Storage: Keep away from food and drink. Store in the original container securely closed in a cool, dry and well ventilated area.

Suitable storage material: Mild/stainless steel. Do not store in aluminium, copper or their alloys.

8. Exposure Control/Personal Protection

UK Maximum Exposure Standard (UK EH40).

Ethanol	-	15 min STEL	1000 ppm	8h TWA
Methanol	250 ppm	15 min STEL	200 ppm	8h TWA

Technical Protective Measures: Local exhaust ventilation.

Eye Protection: Wear suitable goggles or face protection.

Skin Protection: Wear overalls and closed footwear.

Respiratory Protection: Chemical cartridge if there is a risk of breathing mists, vapours or aerosols.

Hand Protection: Wear suitable PVC gloves.

9. Physical and Chemical Properties

Appearance: White Liquid.

Odour: Solvent.

Density: 0.980.

Flashpoint: 13°C.

Ignition: Not Available.

pH Value: Not Available.

Viscosity: 3 poise @ 25°C.

Melting Point/Range: -

Boiling Point/Range: 84°C.

Oxidising Properties: Not Available.

Autoflammability: Not Available.

Solubility in Water: Insoluble residue.

Vapour Pressure: Not Available.

Explosive Properties: Not Available.

10. Stability and Reactivity

Stability: Stable under normal conditions. **Reacts violently with: oxidising agents, peroxide.**
Conditions to Avoid: Do not leave containers open.
Materials to Avoid: Oxidising agents, peroxides (Exothermic).
Hazardous Decomposition Products: Thermal decomposition or burning may release oxides of carbon.

11. Toxicological Information

Acute Toxicity: The product contains components that are Hazardous by the following routes; ingestion, inhalation and skin contact.
Eyes: May cause irritation, pain redness.
Skin: May cause irritation on prolonged or repeated contact.
Inhalation: May be harmful to respiratory tract.
Ingestion: May irritate digestive tract.

12. Ecological information

Prevent contamination of soil, drains or surface water. There is incomplete ecotoxicological data is available for this product.

Mobility: Insoluble residue, may absorb onto soils and sediments.
Biodegradability: Residues readily biodegradable.
Bioaccumulation: Not available.
Sewage Treatment: Not available.
Ecotoxicity: Expected to cause adverse effects on the aquatic environment.

13. Disposal considerations

Product Disposal: Incineration or landfill in accordance with local and national regulations.
Container Disposal: Contaminated packaging materials should be disposed of identically to the product itself. Labels must not be removed from containers until they have been cleaned. Packaging materials that are not contaminated should be treated as household waste or as recycling material.

14. Transport information

RID/ADR: 3.2
IMDG: 3.2
IATA: 3.2
Flashpoint: 13°C
UN: 1866
Transport Card: 30G30
Packaging Group: II
Marine Pollutant: No
PSN: RESIN SOLUTION, flammable, flash point <23°C, initial boiling point >35°C (Contains Industrial Methylated Spirits).

15. Regulatory information

EC Supply labelling as required by CHIP

Health	Physio-Chemical	Environment
Not classified	F – Highly Flammable	Not Classified

Contains: Contains Industrial Methylated Spirits.

R11: Highly Flammable
R23/5: Toxic by inhalation and if swallowed

S7: Keep container tightly closed.
S16: Keep away from sources of ignition.

16. Other information

Customers are urged to ensure that the product is entirely suitable for their own purpose. If requested, Cromar Building Products Limited can assist in technical discussions. If this product is redistributed or reformulated for sale, details of its hazards and the recommended methods for safe handling must be passed to customers.

The data contained in this Safety Data Sheet has been supplied as required by the Chemical (Hazard Identification and Packaging) Regulations 1993, as amended, for the purpose of protecting health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. **Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.**

This information is given in good faith, being based on the latest knowledge available to Cromar Building Products Limited. No known relevant information has been omitted from this Material Safety Data Sheet and the information provided is designated to enable the user to use the product safely. The user should not assume on the basis of the information provided in this sheet that the product is suitable for any abnormal use. If the information provided is insufficient to ensure safety in any particular application, contact Cromar Building Products Limited for further advice before the proposed application is undertaken.

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