CROMAR BUILDING PRODUCTS

ALLWEATHER ROOFING COMPOUND

4Issue 3 - October 2005 - 01/012

Description:
A filled bituminous solution for overall waterproofing of roofs. Can be applied onto dry surfaces all year round.

Uses:
Cromar Allweather Roofing Compound is an effective, general purpose roof coating. It is resistant to wash off by rain almost immediately after its application and is therefore ideally suited for winter use. Cromar Allweather Roofing Compound may be applied by brush or by spray to waterproof and re-seal many different types of roof coverings, including:-

1. Asphalt roofs.
2. Built-up felt roofs.
3. Concrete roof decks.
4. Asbestos-Cement sheeting.
5. Metal sheeting, including iron, steel, zinc and lead.
6. Slates + Tiles.

Cromar Allweather Roofing Compound may be used in conjunction with a rot-proof hessian reinforcement scrim or a bitumen coated glass fibre scrim.

Cromar Allweather Roofing Compound may also be used as a vapour barrier. Cromar Allweather Roofing Compound is unsuitable for use in silage pits.

Colour:
Black

Coverage Rates:
Cromar Allweather Roofing Compound should normally be applied in two coats at 1.0 - 1.5m² per litre per coat, depending upon the porosity of the surface.

Container Sizes:
2.5, 5 and 25 litres

Storage Life:
Cromar Allweather Roofing Compound should be stored indoors away from sources of ignition, naked flames, hot lights, etc.

Application Instructions:
No roof coating product can be expected to repair an existing roof which is not structurally sound and stable. Before using a surface coating the roof structure should be inspected and, if necessary, put in order. All cracked, broken slipped or missing slates, tiles, sheets or other forms of covering should be replaced or re-fixed and cracks in felt or asphalt filled.

Preparation of the surface is of great importance and will influence the degree of adhesion and life of the renovation. All roofs surfaces to be coated should be sound, stable, clean i.e. free from loose debris, dirt, dust and grease. All traces of algae and fungi have been present, remove them completely and treat the surface with Moss + Mould Remover in order to kill any remaining spores, thereby discouraging the return of the growths.

Asphalt Roofs:
On asphalt roofs where blisters have occurred, these should be heated with a blow lamp until soft and then smoothed out. If the asphalt is crumbling or badly cracked, it must be removed and replaced with a polyester based underlay

Cromar Allweather Roofing Compound should be applied by brush in two coats, the first being allowed to dry before the second is applied.

Built-Up Felt Roofs:
Remove any loose chippings can carry out the preparation work detailed above. Minor marks and defects will be effectively filled and covered by the Cromar Allweather Roofing Compound but where these are wider than 0.75 mm they should first be filled with Cromar Trowel Mastic and the mastic allowed to dry.

Blisters in roofing felt should be opened out, cleaned with a stiff bristled brush and coated with Cromar Allweather Roofing Compound at 1.50 square metres per litre. The Cromar Allweather Roofing Compound should be allowed to set until it is 'tacky' and then felt should be re-fixed by bonding it down.

In each case the Cromar Allweather Roofing Compound and a glass membrane should then be applied.

Reinforced Concrete:
Carry out preparatory work. If the deck is a new one it should be first allowed to cure and then primed using Cromar Bituminous Primer at 6-8m² per litre depending upon porosity.

ALLWEATHER ROOFING COMPOUND

MATERIAL SAFETY DATA SHEET

Date of issue: September 2001 Version 3

Cromar Building Products Limited
Unit 3, The Maltings Industrial Estate
Doncaster Road
Whitley Bridge
Goole
North Yorkshire, DN14 0HH
Tel: 01977-663133
Fax: 01977-662186

1. Identification of the product

Product: Allweather Roofing Compound

2. Composition/information on ingredients

A solvent-based bituminous roof paint

CAS No	Chemical Name	Weight %	Symbol & R-phrases	
64742-93-4	Bitumen	>30	R40	
64475-85-0	White spirit	>30	F	R10
8030-30-6	Naphtha	<15	F	R10
1330-20-7	Xylene	<5	Xn	R10, 20/1, 38

3. Hazard identification

Contains solvent which causes defatting of the skin and, in extreme cases, dermatitis. Possible risk of irreversible effects (R40). Flammable (R10)

4. First aid measures

Inhalation:	Remove to fresh air. If discomfort persists seek medical advice
Skin contact:	Remove contamination with proprietary skin cleaner, followed by washing with soap and water. This procedure should also be followed prior to eating, drinking, smoking and toilet functions
Eye contact:	Irrigate immediately with clean water for 15 minutes and obtain medical attention.
Ingestion:	If swallowed, seek medical advice immediately. Do not induce vomiting.

5. Fire fighting measures

Suitable extinguishing media:	Dry powder, CO_2, foam, sand, and earth
Unsuitable extinguishing media:	Never use water jet
Special exposure hazards in fires:	None known. Required special protective Wear suitable protective clothing equipment for fire fighters:

6. Accidental release measures

Precautions: Stem flow of spilled material. Extinguish all naked flames and cigarettes. Material should be mopped up immediately with an inert absorbent material such as sand, earth etc. Prevent spills from entering sewers and drains. Dispose of at an appropriate licensed waste disposal site in accordance with current laws and regulations.

7. Handling and storage

Handling:	Ensure adequate ventilation
Storage:	Should be stored under cover out of direct sunlight and away from sources of heat and ignition.

8. Exposure controls

UK Occupational exposure standards EH40: White spirit 100ppm 575mg/m^3 8HR TWA

Respiratory protection:	Should not be necessary with adequate ventilation. In poorly ventilated areas, a cartridge mask approved for organic vapours is recommended
Hand protection:	Wear suitable impervious gloves
Skin protection:	Appropriate protective clothing
Eye protection:	Appropriate chemical resistant goggles

9. Physical and chemical properties

Appearance:	black fibrous paste
Odour:	petroleum solvent
pH:	not applicable
Boiling point/boiling point range:	not determined
Melting point/Melting point range:	not applicable
Flash point (°C) – closed cup:	approx. 25° C
Flammability:	not applicable
Auto-flammability:	>230° C
Explosive properties:	UEL 7% Vol, LEL 0.6% Vol.
Oxidising properties:	not applicable
Vapour pressure:	not determined
Relative density:	1.03 $\pm$ 0.06
Solubility (water):	insoluble

10. Stability and reactivity

Stable under normal conditions. Avoid excessive heat.
Hazardous decomposition products: Carbon dioxide, carbon monoxide, hydrogen sulphide, oxides of nitrogen and sulphur

11. Toxicological information

Short-term skin exposure may lead to dermatitis
Long term skin exposure may cause irreversible effects.

12. Ecological information

The preparation has not been tested but the slow rates of biodegradation of bitumen can cause interference with the normal functioning of ecological cycles. Bitumen should therefore be contained and spills avoided.

13. Disposal consideration

Disposal of material should be by incineration in accordance with local regulations. Packaging should be similarly disposed of.

14. Transport information

UN No:	1263
Description:	Paint
Class:	3
Item No:	3.32°(C)
Symbol:	“Flammable liquid” diamond
Packing Group:	III
Emergency Action Code:	3(Y)

IMDG, page 3302 Paint containing flammable liquid; Class 3.3 Packaging Group III

15. Regulatory information

EEC Symbol	Xn Harmful Contains Bitumen solvent blend
R10	Flammable
R20, 21, 22	Harmful by inhalation, in contact with skin, by ingestion
R38	Irritating to skin
R40	Possible risk of irreversible effects
R52	Harmful to aquatic organisms
S2	Keep out of reach of children
S16	Keep away from sources of ignition – no smoking
S25	Avoid contact with eyes
S7,9	Keep container tightly closed in a well ventilated place
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case insufficient ventilation, wear suitable respiratory equipment.
S43	In case of fire use dry powder, foam or CO_2. NEVER use water

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.

Lightweight Concrete: Carry out preparatory work. Allow the concrete roof deck and topping screed to cure. A glass fibre felt underlay should be partially bonded to the surface using Roofing Felt Adhesive and Cold Gritting Adhesive. The felt should be lapped, sealed and adequate ventilation provided for the materials beneath it. Cromar Allweather Roofing Compound and glass membrane should then be applied.

Asbestos-Cement Sheeting: Carry out preparatory work. It is particularly important to ensure that the asbestos cement is not saturated with water before protective coating commences. Wait until the asbestos cement sheeting is dry and then apply one coat of Cromar Bituminous Primer. Allow the primer to dry and then apply two coats of Cromar Allweather Roofing Compound. Ensure that complete contact is achieved and that no air is trapped beneath the Allweather Roofing Compound.

Metal Surfaces: Where these show signs of corrosion such as loose rust this should be removed by abrading with a metal-bristled brush. A rust inhibitive treatment should be applied to ensure that the rust will not return. For normal circumstances, abrading with a brush is usually sufficient preparation. Cromar Allweather Roofing Compound should be applied in 2 coats at 1.5m² per litre per coat.

Slates and Tiles: Carry out preparatory work. The roof should be examined for damaged or loose slates or tiles. Any loose slates or sheets should be re-fixed firmly in place. Cromar Allweather Roofing Compound and glass membrane should then be applied.

Scrim Treatment: In order to bridge gaps, cracks and fissures and in all cases where roof surfaces are in advanced states of decay, it is recommended that Cromar Allweather Roofing Compound be used in conjunction with a reinforcing membrane, either rot-proof hessian or, preferably glass membrane.
Having ensured that the surface is clean and receptive to the coating product, apply a first coat at 1m² per litre. Immediately apply the glass membrane into the wet Allweather Roofing Compound film using a brush charged with Allweather. Ensure that complete contact is achieved and that no air is trapped beneath the Allweather Roofing Compound.

The glass membrane should be lapped by 50 to 75 mm and the inside of each lap should be painted with Cromar Allweather Roofing Compound. Small gaps and differences in levels should be bridged ensuring that the glass membrane is not pulled too tightly across the gap so that any movements in the structure will be accommodated.

At walls and parapets, continue the glass membrane and Cromar Allweather Roofing Compound sandwich vertically for at least 150 mm and secure using self-adhesive flashing (150mm width) allowing 75mm to be in contact with the brickwork above. Apply a second coat of Cromar Allweather Roofing Compound and allow this to dry.

Final Surface: It is beneficial to the coating and to the rest of the roof structure to give a final solar reflective finish. An exposed black bituminous surface should be avoided on a pitched or flat roof. When using Cromar Allweather Roofing Compound a third and final coat should be preferably applied at 1.5m² per litre and, while the film is still 'tacky' well blinded within 1 to 2 mm (7 to 14 mesh) stone chippings or clean sharp sand. Alternatively onto the final Allweather coating which should be allowed to weather for a minimum of 2 weeks, preferably one month, a solar reflective coating can be provided using Cromar Aluminium Paint.

Vapour Barrier: When insulating material is placed on a flat roof deck it is essential to prevent condensation water vapour from entering the insulation. If this is allowed to happen in can damage the insulation. Two coats of Cromar Allweather Roofing Compound, the first applied at 1m² per litre, the second at 1.5m² per litre, will help prevent this. The Allweather Roofing Compound should be applied to the 'warm side', care being taken to avoid pin holes and imperfections in the coating. After the Cromar Allweather Roofing Compound has dried the insulation may be applied over it.

Cleaning Tools: Tools may be cleaned with paraffin or white spirit.

Health & Safety: Please refer to health and safety data sheet on Allweather Roofing Compound.

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.

CROMAR BUILDING PRODUCTS
Unit 3 The Maltings Industrial Estate, Doncaster Road, Whitley Bridge, North Yorkshire DN14 OHH
Tel: 01977 663133 Fax: 01977 662186
www.cromar.uk.com sales@cromar.uk.com