

EABASSOC

PRODUCT INFORMATION

RBC – Reinforced Bitumen Compounds

Description

RBC – (Reinforced Bitumen Compounds) are one coat protective compounds for the maintenance of pitched, corrugated metal and asbestos-cement sheet roofs. Also suitable for overcoating bituminous membranes and mastic asphalt on flat roofs which should have sufficient slope to prevent standing water. RBC can also be used for general metal protection including vehicle under-bodies.

RBC ALUMINIUM satisfies the requirements of American Standard ASTM D2824. Although RBC are coloured compounds, more than 50% of the cured membrane consists of Bitumen, and hence they provide a genuine protective coating and not merely a decorative finish.

Technical Data

Form	Thick brushable liquid
Density	1.05 – 1.10 kg/litre
Solids	60% - 70% by weight
Flash Point	42°C
Application Temperature	5°C to 35°C
Service Temperature	-20°C to 80°C
Resistance (when dry)	Resists water, including salt spray. Reflects approximately 75% solar energy. Not resistant to oil, petroleum solvents or strong acids.
Drying Time	Overnight
Drum Size	25 litre
Colours	Aluminium, Dark Green, Dark Blue, Dark Red, White, Light Green, Light Blue, Light Red, Beige, Grey. Other colours on request. Black RBC is also available (see separate data sheet).

Advantages

- * Minimal surface preparation
- * One-pack, ready to use products
- * One coat, cheap and easy application
- * Will not flow off high spots and slopes
- * Excellent adhesion, even to old surfaces
- * Not an emulsion – will not wash off
- * Resistant to UV and high temperature. (Note – UV alters the colour of some RBC Colours)
- * 10 year life
- * Can be recoated

RBC reinforced bitumen compounds are made from bitumen

- * Bitumen is totally resistant to water
- * Bitumen has superb adhesion to all roof surfaces
- * Bitumen is flexible

RBC also contains fibres and fillers for long term durability even against UV, high temperature, and general weathering. RBC is not an emulsion. It contains no emulsifying agents. It will not wash off.

RBC will seal metal against water and air, thus preventing corrosion. It will also seal old, porous asbestos-cement sheets, preventing water penetration.

RBC produces a membrane which has HIGH ADHESIVE STRENGTH, but LOW COHESION. Therefore, unlike elastomeric coatings, it will not delaminate as a single sheet if there is a substrate fault or application error.

Application Advantages

RBC is thixotropic. It can be brushed smoothly and quickly, but does not flow off high spots or sloping surfaces, so that a uniform membrane thickness can be achieved, even on corrugated sheet.

Unlike roof coatings based on polymeric resins, RBC does not require a perfect surface for application. It is not necessary to grit-blast old corroded surfaces down to bright metal. Wire brushing to remove loose particles is sufficient for good adhesion of RBC.

RBC produces a protective coating which will not split or delaminate. It will gradually wear away due to weathering, but under normal circumstances a life of about 10 years can be expected. Once the coating has become too thin it can be recoated easily and cheaply.

RBC seals corrosion and prevents its growth. It does not convert rust, however, and will not stop corrosion that is coming from the underside of the metal sheet. In such cases a rust inhibitor must be applied to the underside after cutting out any corrosion that has come right through the sheet.

Application Instructions

Surface Preparation:

Washing and wire brushing is sufficient for most surfaces to remove dirt, grease and loose particles including surface corrosion. It is not necessary to grit-blast down to bright metal. However, when applying RBC Colours onto untreated mild steel surfaces, a rust inhibiting primer should first be applied. Other metal surfaces need not be primed unless the surface is very dusty or rough due to heavy surface corrosion. In the latter situation rust inhibiting primer is recommended under all RBC compounds to give added long-term protection.

Use an anti-fungal wash if moss or similar is present. Old flaking paint must be removed, for which a powered sander may be needed. Cut and stick down blisters in old membranes. Fill cracks and holes with **EABASSOC Bitumen Mastic** or RBC mixed with sand. Cracks where movement is possible should be covered with **EABASSOC Flashing Tape**. In both cases prime beforehand with **EABASSOC Bitumen Primer** (6m²/litre). Also prime the whole surface of asbestos-cement sheets and similar porous surfaces.

Application:

Surfaces must be dry. Do not apply if rain is imminent. Stir well before use then apply by brush or airless spray equipment. When applying RBC Aluminium, do not overbrush since this causes the surface to darken.

Cleaning:

Clean brushes in white spirit or similar solvent.

Coverage Rate

The normal coverage is a single coat applied at 0.5 litres/m².

Warehousing

Tightly seal part-used drums and store under cover. Storage temperature 8°C to 25°C.

Health and Safety

RBC is a flammable solvent-based liquid. Avoid flames and sparks. Do not inhale. Although RBC has a relatively low hazard rating, it is advisable to use barrier cream on exposed skin and to wear protective clothing. Splashes should be cleaned off skin with hand cleaner, not solvent. If splashes go into eyes, nose or mouth, wash for ten minutes with clean water, and get immediate medical help. Please refer to Health and Safety Data Sheet for further information.