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EABASSOC

PRODUCT INFORMATION

EABASSOC SPRAYTEC

PRODUCT DESCRIPTION

SPRAYTEC is a water-based two component spray-applied system, which cures INSTANTLY to form a seamless, highly elastic, waterproofing membrane.

It consists of a special rubber bitumen emulsion and a liquid coagulant. These two components are sprayed simultaneously through separate nozzles so that intimate mixing occurs within the spray, producing an instantaneous solid membrane on the substrate.

USES

SPRAYTEC is principally used in areas where fast curing is essential. For underground situations where there is a high degree of water ingress, SPRAYTEC provides an ideal solution.

Being water based it can be applied onto damp surfaces, whilst its instant curing means that measures to reduce water flow can be kept to a minimum. Examples of such work are underground garages, canals and reservoirs, where extensive pumping is normally necessary to prevent incoming water from damaging ordinary waterproofing products.

It can also be used for general tanking work in wet areas such as basements, bathrooms, kitchens and for waterproofing all types of roofs, particularly flat roofs, where its great strength, elasticity and resistance to UV light ensure very long-term durability. For roofing, SPRAYTEC can take the place of high performance torching and other membranes, with a similar 4 mm thickness and an aggregate finish if required. It has the added benefits of being seamless and not requiring flame torches or hot-melt adhesive.

SPRAYTEC is highly versatile, and can be used on structures of any shape. The system is suitable for both remedial or new work, and can be applied to the following:

- * Built-up felt roofs
- * Asbestos cement cladding and roof sheets
- * Metal cladding and roof sheets
- * Mastic asphalt
- * Concrete roof decks
- * Timber roof decks
- * Most types of roof insulation
- * Underground structures
- * Reservoirs and canals etc.
- * Tunnels and basements

SPECIAL FEATURES

- * Instant membrane formation. .instant waterproofing.
- * Seamless finish gives absolute watertightness.
- * Highly Elastic: Elongation in excess of 1000%.
- * Environmentally Friendly: Cold-applied, non-hazardous, without fumes.
- * Applied in a SINGLE high-build layer, making it very cost effective.
- * High UV resistance.
- * Resistant to both high and low temperatures.
- * Resistant to puncturing, and self-healing if cut throughout its lifetime.
- * Good anti-corrosion properties due to its high pH value.
- * Suitable for use in contact with drinking water.
- * Excellent slump resistance.
- * Can be applied onto “green” (i.e. uncured) concrete.

HOW IT WORKS

SPRAYTEC works by a process, in which there is an instant chemical reaction between the coagulant and the bitumen emulsion. This reaction causes the water in the emulsion to separate out, leaving a solidified rubber bitumen membrane. This is known as “breaking”. The excess water remains on the surface until it drains away or evaporates.

Despite this surface water, and its wet appearance, the membrane becomes solid and attains its properties instantly.

When the membrane forms, it has an open textured surface. This gradually closes and becomes smooth over a period of about 3 weeks. This open texture does not effect the properties of the membrane.

TECHNICAL DATA

Properties of the Emulsion:

Composition :	Anionic rubber bitumen emulsion without solvents, plasticisers or filler
Colour :	Brown
Method of Application :	Spray only
Specific Gravity :	1.015
Solids :	57% ± 1%
pH :	Approximately 12
Application Temperature Range :	+ 5°C to + 40°C

Properties of the Dried Film:

Colour :	Black
Heat Flow Resistance :	No slump after 5hrs at 100°C on a vertical surface.
Cold Temperature Resistance :	- 20°C (180° bend over 20 mm diameter mandrel)
Water Pressure Resistance:	No leak at 1 Atmosphere Pressure (thickness of membrane 4mm)
Elongation at Break :	>1000 % (Did not break when tested to ASTM: D412)
Water Tightness :	Withstood 60kPa (0.6 bar) water pressure (DIN 53363)
Weathering Resistance :	After 1000 hours of QUV testing (equivalent to 5 years) elongation was still >1000 %
Physiological Properties :	Non-toxic during application and as dried film

STORAGE

Protect from frost. Store between 5°C and 30°C. Shelf life is a minimum of 12 months in tightly sealed containers. Agitate regularly if in storage for a lengthy period.

SURFACE PREPARATION

(Refer to separate information sheet for full details)

All surfaces should be sound and firm, and be correctly prepared, free from dust, dirt, oil or grease, and fungus growth.

It may be necessary to apply a primer to porous substrates before coating with SPRAYTEC. For roofing, if the surface is cracked or porous, it must first be sealed to prevent the water which breaks from the SPRAYTEC from penetrating into the building.

COVERAGE DATA

We normally recommend a coverage rate of 7 kg of emulsion per square metre. This gives a dry membrane thickness of about 4.0 mm. The coverage rate can be reduced depending on the application, for example 4 kg per square metre is used on pitched metal roofing.

APPLICATION

(Refer to separate information sheet for full details)

SPRAYTEC is applied using specially designed spray equipment. The diesel spray machine weighs about 150 kg, and the electric weighs 75 kg. Both are mounted on wheels and are extremely versatile.

The whole job can be done with a crew of only 3 people and is even possible with only 2, making the method mobile and fast. As much as 1000 m² can be applied in a single day, whether on horizontal, vertical or overhead surfaces.

FINISHING

The membrane can be left exposed, or it can be painted with EABASSOC ST Topcoat for decorative purposes. Alternatively, apply stone aggregates into a second, thin, spray coat after the membrane has fully dried.

HEALTH AND SAFETY

SPRAYTEC is non-flammable and non-hazardous.

The product can be removed from the skin with soap and water when wet, and by using a proprietary hand cleanser when dry. In the event of contact with eyes, wash them with clean water.