Polycoat RBE 15

SBS modified bitumen emulsion

Emulsified bituminous coating which dries to form a tough and seamless, flexible water and vapor proof protective coating.

CHARACTERISTICS

- Cold applied.
- Single component, easy to apply.
- Can be applied on damp substrates.
- Asbestos free, odorless. Can be applied in closed or confined spaces.
- Water-based and therefore is non-toxic.
- Environmentally friendly.
- Good resistance against chloride and sulphate ions.
- Has good adhesion to most building substrates.
- Seamless/joint free.

DESCRIPTION

Polycoat RBE 15 is an emulsified bituminous coating modified with 10% Styrene Butadiene Styrene Rubber, which dries to form a tough and seamless, flexible water and vapor proof protective coating.

FIELDS OF APPLICATION

Can be used for a wide variety of applications, which includes the following:

- waterproofing & protective coating on shallow foundations.
- as damp proof membrane in sandwich construction.
- waterproofing in wet areas such as toilets, kitchens etc.
- curing compound on freshly cast concrete structures
- general vapor proof coating

ENVIRONMENTAL INFORMATION

Contributes toward satisfying LEED® v4 requirements of the EQ Credit- Low-emitting Materials (for the VOC content).

APPLICATION INSTRUCTIONS

Application procedures may vary slightly depending upon site conditions. The general recommended guideline for the application of the bitumen coating system is as follows:

Surface preparation

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil, grease. Light mechanical grinding/grit blasting/high pressure water jet may be used to clean the surface of all the contaminants depending on the degree of contamination on the surface to be coated.

All surface imperfections and protrusions shall be removed and repaired. Structurally unsound and friable concrete must be removed and repaired with a suitable Polycrete* concrete repair mortar.

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Priming

It is highly recommended to apply a priming coat prior to the application of the Polycoat RBE 15 coating on the substrate. The primer can be prepared in the site by diluting Polycoat RBE 15 with 20% water and applying this diluted coat as the primer. For very dry and porous substrates apply two coats of this primer. The primer can be applied to damp or freshly cast concrete surfaces also. However, it should not be applied on waterlogged or flowing water areas. Further coats shall be applied only after the primer coat dries off completely. In case of delay in application of the top coat for more than 24 hours, a fresh coat of primer shall be re-applied.

Foundation Waterproofing

Stir the contents of the drum thoroughly before application to remove all sediments. Depending on the dry film thickness required, apply the rubberized bitumen coating @1–2m²/L/coat at required no. of coats. On vertical areas, it is recommended to apply the coating in multiple layers in order to avoid sagging of the heavy bodied

coating. Subsequent coats shall be applied only after the previous coat dries off completely and shall be applied at right angles to the previous coat. Clean dry sand may be broadcasted onto the wet coating to provide a key for the subsequent coats and achieve a greater dry film thickness. The coating should be applied and finished up to the DPC level. If a plaster or cement render is to be applied on the bitumen coated surface, clean dry sand shall be broadcasted on to the coating whilst it is still wet. Leave the coating for curing for a minimum period of 48 hours before applying any protection board or backfilling. Care shall be taken to ensure that the first coat is not punctured during the application of the second coat. However, if the coating is damaged, the area can be readily over coated provided the surface preparation is done properly.

Protection

Polycoat RBE 15 coating should be protected from getting damaged due to the ongoing site activities and during backfilling.
Coating can be protected either by a cement sand screed (50mm thick) or by an asphaltic protection board (Bituboard*). Alternatively, a 1000 gauge polythene sheet can also be used for protecting the coating in areas where the backfill material is not very coarse.
Note: Curing efficiency of Bitumen based emulsions will not be high as that of Resin based curing compounds

COVERAGE

The coverage varies depending on the type of use:
General use : 1-2 m^2/L/coat at required no. of coats

CLEANING

Clean all tools immediately after use with clean water. Hardened material can be cleaned with a suitable cleaner.

STORAGE & SHELF LIFE

The pails and drums must be stored in a covered area, away from direct sunlight, UV and other sources of heat. The shelf life of the product is up to 12 months in un-opened condition and when stored as per recommendations. Failure to comply with the recommended storage conditions and excessive exposure to sunlight and UV will result in the deterioration of the quality of the product and reduce its shelf life.

HEALTH & SAFETY

As with all bitumen products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. (See packing for specific instructions). Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting. Call for medical help immediately. Ensure that the container is available for medical attendant to examine any relevant instructions and content details.

SUPPLY

Polycoat RBE 15		20L pail & 200L drums
Bituboard	3.2mm	2m x 1m, wt 7.7kg
	6.0mm	2m x1 m, wt 14.0kg
Bitutape TS		10m x 50mm, wt 0.60kg

 # Approximate weight

TECHNICAL PROPERTIES

PROPERTIES	VALUES	TEST STANDARDS
Color	Dark Brown	-
Form	Thixotropic viscous liquid	-
Density @25°C, [g/cc]	1.00±0.05	ASTM D 1475
Solid content, [% by wt]	>65	ASTM D 2939
Rubber content, [%]	>10 on the dried film.	ASTM D 297
Elongation, [%]	> 500	ASTM D 412
Drying time @25°C, [minutes]	60	-
Application temperature [°C]	5 to 55	-
Service temperature [°C]	-5 to 100	-
VOC [g/l]	<50	ASTM D3960/ D2369

All values given are subject to 5-10% tolerance

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.
The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

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