BCI BUILDING CHEMISTRY INDUSTRY

Method statement for application of BC Coat RBC 100

This method outlines the procedures and steps involved in the application of Jellified bitumen emulsion BC Coat RBC 100

Surface Preparation: The first step in the application is to prepare the surface. This may involve removing any existing coating, cleaning the surface to remove dirt and debris, and repairing any cracks or other surface imperfections.

Cleaning: The surface should be thoroughly cleaned to remove any dirt, dust, or other contaminants that may interfere with the bond between the surface and New Water Proofing .

Priming: A suitable primer should be applied to the surface to promote adhesion between the surface and the bituminous paint. The primer should be allowed to dry according to the manufacturer's instructions.

Mixing:Material should be mixed according to the manufacturer's instructions to ensure that it is homogeneous.

Application: Material should be applied to the surface using a roller, brush, or spray equipment. The paint should be applied in a thin, even layer, taking care to avoid drips or runs.

Drying: The bituminous coating should be allowed to dry for the recommended time period, which is typically 24 to 48 hours.

Inspection: The completed application of bituminouswater proofing should be inspected to ensure that it meets the desired performance specifications. Any defects or problems should be corrected as necessary.

It is important to follow the manufacturer's instructions carefully when applying bituminous to ensure that the finished product meets the desired performance specifications. The method statement should also be reviewed by a qualified professional to ensure that it complies with any relevant codes and standards.

Section A : General Comments

High-Temperature Working:

BC Coat RBE 100can be applied at temperatures between 5 and 45°C. However, It is suggested that, for temperatures above 30°C, the following guidelines are adopted as good working practice:

1. Unmixed materials and equipment should be stored in a cool shaded area and away from direct sunlight.

ii. Avoid application during the peak temperature of the day.

iii. Ensure proper and adequate ventilation.

iv. Plan for enough materials, tools, and labor to ensure a continuous applicant process.

Low-Temperature Working:

It is suggested that, for temperatures below 5°C, the following guidelines are adopted as good working practice:

i. Unmixed materials should be stored at room temperature.

ii. Avoid applying the product if the temperature is around 5o

C and falling.

iii. Do not apply under rain or snow, and avoid dew points conditions before and during application.

System Products:

BC Coat RBE 100

Protection Board:

BC XPS Boards

Tools and Equipment:

It is suggested that the following list of equipment are adopted as a minimum requirement

Personal protection : Protective overalls

Goggles or a face mask
Good quality gloves
Safety shoes
Safety helmet

Equipment :

Stiff wire brush
Soft brush
Air compressor with hose

Brush
Broom
Squeegee
Airless spray

Substrate Preparation

Surface preparation is very important to get the highest performance of BC Coat RBE 100
All surfaces to be waterproofed must be clean and free from any laitance, wax, grease, dirt, oil, and standing water. In addition, the substrate should be levelled and free from contamination such as mortar and paint splashes, or curing compounds
Excess laitance, old coatings or surface treatments are best removed by mechanical grinding, light sand/grit blasting followed by vacuum cleaning to remove dust debris
Surfaces contaminated with oil or grease should be cleaned using a chemical degreaser or a suitable cleaning method which assures the surface is free from any oil traces
Structurally unsound and friable concrete, surface defects and imperfections such as voids and deep cracks should be repaired with a suitable cementitious mortar before application

2.0 Priming

BC Coat RBC 100 can be normally applied over well-prepared substrates directly without a primer.
If a primer is required, or in case of dusty or highly porous surfaces; dilute BC Coat RBE 100with an equal quantity of clean water (1:1), and apply this
BC Coat RBE 100with an equal quantity of clean water (1:1), and apply this diluted mix as the primer coat by brush and allow 4 - 6 hours until touch dry.
The primer coat can be applied to freshly cast concrete immediately after shuttering has been struck and over damp surfaces; provided that no free water is present

Application

Stir BC Coat RBC 100 well before use.
BC Coat RBC 100 may be applied by brush, roller, broom or squeegee.
BC Coat RBC 100 can be spray applied using an airless spray machine.
BC Coat RBC 100 can be diluted with clean water at a ratio of up to 10% depending on the required thickness and application conditions.
For efficient waterproofing, it is recommended to apply two coats of BC Coat RBE 100 to avoid possible pinholes in the membrane.
BC Coat RBC 100can be applied as a curing compound when applied in two coats at a rate of 4 m^2/litre per coat.

Apply the first coat over the prepared and clean substrate evenly and in one direction, coverage rate will depend on surface roughness and the end use of the product
Protective/damp proofing coating: 3 - 5 m²/litre per coat.
Waterproof coating: 1 - 1.5 m²/litre per coat.
Curing compound: 4 m²/litre per coat.
The first coat should be applied to obtain a continuous uniform coating.
It is recommended that while first coat is still wet, all right angle corners and pipes/drain penetrations shall be reinforced with 20 cm wide fibreglass mesh(60 g/m2 or more).
Press the fibreglass mesh firmly into place without wrinkles and allow to dry.
Allow a minimum of 4 hours between coats so that each coat is allowed to dry before applying the next coat.
Ensure the membrane is not punctured or damaged during subsequent operations.
Apply the second coat at a right angle and at the same rate mentioned above and allow it to dry.
Surfaces coated with BC Coat RBC 100 should not be exposed to rainwater or ponding water for a minimum of 72 hours after application.
Each independent area of application should have sufficient materials, equipment, and labour.
If a plaster or cement render is to be applied on the bitumen-coated surface, a third coat is recommended to be applied, followed by clean dry sand broadcasted onto the coating whilst it is still wet.
BC Coat RBC 100must be cured overnight before any subsequent works.
Allow a minimum of 48 – 72 hours drying period before plastering, rendering, or laying floor screeds.

6.0 Cleaning

All tools used for BC Coat RBC 100application must be cleaned immediately with clean water when still wet.
Hardened materials must be cleaned using Solvent mechanically
Special care should be taken to provide an unbroken coating at external corners and similar exposed protrusions.
BC Coat RBC 100 doesn't require any special curing but must be protected from rain, and water until coating has cured.
Application should not be carried out when there is standing or running water.
BC Coat RBC 100should be protected or covered within 7 days of application.
BC Coat RBC 100 should not be exposed to long-term UV

.

Notes:

If it is exposed for more than one week and up to three months, an additional layer of BC Coat RBC100 shall be applied over the exposed coat if visual damage or cracking is noted in the coat, without the need to remove the exposed coat

If BC Coat RBC 100 has been exposed for more than three months, and visual damage or cracking is noted in the coat then the exposed coat must be removed by grinding or sand blasting and the substrate should
in the coat then the exposed coat must be removed by grinding or sand blasting and the substrate should be recoated by applying two layers of BC Coat RBE 100

Section C : Cautionsي
Health and safety

BC Coat RBC 100should not come in contact with skin or eyes. Goggles and gloves should be used. In case of accidental contact with skin, immediately flush with plenty of water
Fire:
BC Coat RBC 100 is nonflammable.