

Method Statement for Polyurethane Modified Bitumen Black Coating **BC Memb Black PU**

Introduction:

This method statement outlines the procedure for applying a polyurethane-modified bitumen black coating BC memb black PU .

This type of coating provides enhanced waterproofing, protection from UV rays, and durability for various surfaces such as concrete, metal, and masonry.

Materials and Equipment:

Polyurethane Modified Bitumen Coating: BC Memb black PU

Primer (if required): Based on substrate and manufacturer’s recommendation.

Application Tools:

Brushes
Rollers
Spray Equipment (Airless sprayer, if applicable)
Cleaning Tools: Solvents for cleaning application tools.
Personal Protective Equipment (PPE): Gloves, safety goggles, and overalls.
Surface Preparation Tools: Wire brushes, scrapers, and pressure washers (for cleaning the substrate).



Health and Safety Precautions:

Ensure all workers wear appropriate PPE, including gloves, goggles, and protective clothing.

Work in a well-ventilated area to avoid inhalation of fumes.

Avoid contact with skin and eyes. In case of contact, wash immediately with plenty of water.

Keep all work areas free of ignition sources, as bitumen-based products can be flammable.

Follow manufacturer's safety data sheet (SDS) for specific handling and emergency instructions.

Surface Preparation:

Clean the Surface: Remove all loose debris, dust, dirt, grease, and any previous coatings. Use a wire brush or a pressure washer, depending on the condition of the surface.

Dry the Surface: Ensure the surface is completely dry before application, as moisture can affect adhesion.

Inspect for Damage: Check for cracks, holes, or other defects. Repair any structural damage using a suitable repair mortar or filler before applying the coating.

Primer Application (if required): Apply primer as per the manufacturer's recommendation. Allow it to dry before proceeding to the next step.

Application Process:

Step 1: Stirring the Coating

Open the container of polyurethane modified bitumen coating and thoroughly stir the liquid using a mechanical mixer or stick to ensure uniformity.

Step 2: Application of the First Coat

Apply the First Coat:

Brush/Roller Application: Use a brush or roller to evenly apply the coating in a thin layer. Ensure uniform coverage across the entire surface.

Spray Application: For larger surfaces, an airless spray machine can be used to apply the coating. Hold the spray nozzle 30-40 cm from the surface, and apply in smooth, overlapping passes.

Coverage Rate: Follow the manufacturer's instructions for the appropriate coverage rate (typically 1-2 kg/m² depending on the surface).

Drying Time: Allow the first coat to dry according to the manufacturer's recommendations (typically 6-12 hours, depending on weather conditions).

Step 3: Application of the Second Coat

Once the first coat is completely dry, inspect the surface for any missed spots or defects.

Apply the Second Coat: Use the same method as the first coat, ensuring even coverage.

Thickness: Aim for a total thickness of 1-2 mm depending on the project requirements.

Curing Time: Allow the second coat to cure fully, which may take 24-48 hours depending on environmental conditions like temperature and humidity.

Post-Application Inspection:

Inspect the Surface: After the coating has dried, check for uniformity in color and texture. Ensure there are no pinholes, bubbles, or missed spots.

Adhesion Test (if necessary): Conduct a simple adhesion test by gently scraping a small area. The coating should adhere strongly to the substrate.

Clean-Up:

Clean all tools and equipment immediately after use with the appropriate solvent recommended by the manufacturer.

Dispose of any waste materials and empty containers in accordance with local environmental regulations.

Environmental Considerations:

Avoid applying the coating in extreme weather conditions such as rain or intense heat, which can affect the curing process.

Ensure proper ventilation in enclosed areas to reduce the risk of inhaling fumes.

Store any unused coating in tightly sealed containers in a cool, dry place away from direct sunlight.

Conclusion:

Polyurethane modified bitumen black liquid coating provides a durable and flexible waterproofing solution. Proper surface preparation, adherence to application guidelines, and ensuring the correct drying and curing times are essential for achieving a long-lasting protective barrier.