BUILDING
CHEMISTRY
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BC PU TC : Polyurethane Tack Coat Method Statement

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1. Purpose

The purpose of this method statement is to outline the procedures for the application of polyurethane tack coat **BC PU TC** in a construction project. This ensures proper adhesion between different layers of material, typically used in road construction, waterproofing, or flooring applications.

2. Scope of Work

The scope covers the application of a BC PU TC , olyurethane tack coat to improve bonding between an existing substrate and the new surface layer. This includes surface preparation, application, curing, and final inspection.

3. Materials & Equipment

3.1 Materials:

- Polyurethane-based tack coat (as per project specification)
- Thinner/solvent (if required for cleaning tools or dilution)
- Primer (if specified in the project)

3.2 Tools & Equipment:

- Airless sprayer or roller
- Paint brushes (for detailed areas)
- Mixing container and mechanical mixer
- PPE (Personal Protective Equipment)
- Surface preparation equipment (grinder, vacuum cleaner, etc.)

4. Safety Measures

Ensure all personnel wear appropriate PPE: gloves, masks, goggles, and protective clothing.
Work in a well-ventilated area to prevent exposure to harmful fumes.
Follow safety data sheets (SDS) for handling chemicals and solvents.
Maintain fire safety measures when working with flammable materials.

5. Surface Preparation

5.1 Inspection:

- Inspect the substrate to ensure it is structurally sound, clean, and dry. Any damage or irregularities should be repaired before proceeding.

5.2 Cleaning:

- Remove dust, dirt, grease, oil, and any loose material using industrial vacuums, grinders, or high-pressure water if necessary.

5.3 Moisture Check:

- Ensure the substrate has a moisture content within the specified limits (as per manufacturer's guidelines).

6. Application Procedure

6.1 Priming (if required):

- If specified, apply a primer to the surface to enhance bonding. Allow it to cure as per the manufacturer's instructions.

6.2 Mixing:

- Stir the polyurethane tack coat in its container before application to ensure uniformity.
- If thinning is required, dilute the polyurethane tack coat with an approved solvent, following manufacturer's guidelines.

6.3 Application of Tack Coat:

- Apply the polyurethane tack coat using an airless sprayer or roller.
    - **Spraying:** Maintain a consistent distance to ensure an even layer.
    - **Rolling:** Use a short-nap roller for even application on the surface.

6.4 Thickness:

- Ensure the polyurethane tack coat is applied at the specified thickness, typically between 0.1 mm and 0.5 mm depending on project requirements.

6.5 Drying & Curing:

- Allow the tack coat to dry before applying the subsequent layer (asphalt, membrane, etc.).
    - The drying time will vary depending on temperature and humidity conditions (typically 1-4 hours).
- Ensure full curing before subjecting the surface to traffic or load.

7. Inspection & Quality Control

- Visually inspect the surface to ensure uniform coverage and proper adhesion.
- Check for any missed areas or irregularities in thickness.
- Adhesion tests may be conducted to verify bonding strength, if required.

8. Cleanup

- Clean all tools and equipment with an appropriate solvent immediately after use.
- Dispose of any waste materials in compliance with local environmental regulations.

9. Responsibilities

- **Project Manager:** Oversee and ensure proper execution of the polyurethane tack coat application.
- **Site Supervisor:** Supervise daily activities, ensure surface preparation, application, and curing are followed according to the method statement.
- **Quality Control Engineer:** Inspect the work to ensure it meets project specifications and quality standards.

10. Records & Documentation

- Keep records of material usage, temperature, humidity conditions, and application dates.
- Document any test results or inspections conducted during and after the application.