

Method Statement for Application of Two-Component Aliphatic Acrylic Top Coat -BC PU Top coat

1. Scope of Work

This method statement covers the surface preparation, mixing, application, and curing of a two-component aliphatic acrylic top coat for surfaces such as metal, concrete, or previously painted surfaces to provide a durable, UV-resistant finish.



2. Materials & Equipment

Materials:

Two-component aliphatic acrylic top coat (Base and Hardener/Activator) – BC PU Top coat
Thinner/Reducer (if specified by the manufacturer) -BC Thinner 101
Primer (if required)

Tools & Equipment:

Spray equipment (airless or conventional spray)
Rollers and brushes (for touch-ups and edges)
Mixing paddle and drill
Personal Protective Equipment (PPE)
Measuring cups/scales for mixing ratios
Cleaning solvents for tools
Surface preparation tools (sanders, grinders, etc.)

3. Surface Preparation

Inspect the Surface:

Ensure the surface is clean, dry, and free from dust, dirt, oil, grease, or any other contaminants.

Remove any loose or flaking paint, rust, or other material.

Surface Cleaning:

Use mechanical methods (e.g., sanding, grinding) or chemical cleaners to clean the surface.

Degrease the surface if necessary, and wash with clean water.

Allow the surface to dry completely.

Priming (if required):

Apply a compatible primer based on the substrate and follow the manufacturer's recommendations for drying times.

4. Mixing of Coating Components

Check Mixing Ratio:

Confirm the manufacturer's recommended mixing ratio for the base and hardener components.

Mixing Process:

Stir the base component thoroughly before mixing with the hardener.

Add the hardener component to the base in the correct proportion.

Mix using a mechanical mixer at a slow speed to avoid air entrapment.

If required, add thinner/reducer to adjust the viscosity, ensuring it's within the manufacturer's specifications.

Mix thoroughly until a homogenous blend is achieved.

Induction Time:

Allow the mixed material to sit for the recommended induction time (if applicable).

Pot Life:

Use the mixed material within the specified pot life. Discard any unused material after this period.

5. Application Procedure

Environmental Conditions:

Ensure the temperature and humidity are within the manufacturer's recommended limits.

Avoid application in direct sunlight or high wind conditions.

Application:

Spray Application:

Set up the spray equipment according to the manufacturer's recommendations.

Apply the coating in thin, even coats, maintaining a wet edge to avoid dry spray and overspray.

Brush/Roller Application:

Use appropriate brushes or rollers for touch-up and areas not accessible by spray.

Coverage Rate:

Apply the coating at the recommended coverage rate to achieve the specified film thickness.

Drying & Recoat Time:

Allow the first coat to dry as per the manufacturer's instructions before applying additional coats.

Apply subsequent coats as necessary to achieve the desired thickness and finish.

6. Inspection & Quality Control

Inspection:

Check for uniformity of color, texture, and thickness.

Measure the dry film thickness (DFT) using a suitable gauge to ensure compliance with specifications.

Defect Rectification:

Address any defects such as pinholes, runs, or sags by sanding and reapplying the coating.

7. Safety Precautions

PPE:

Wear appropriate PPE, including gloves, goggles, and respiratory protection.

Ensure adequate ventilation in the application area.

Handling & Storage:

Store components in a cool, dry place away from direct sunlight and heat sources.

Follow the manufacturer's safety data sheet (SDS) for handling and disposal.

8. Cleanup

Tools & Equipment:

Clean all equipment with the appropriate solvent immediately after use.

Waste Disposal:

Dispose of any leftover material and contaminated containers in accordance with local regulations and the manufacturer's recommendations.

9. Completion

Conduct a final inspection to ensure the coating meets the specified quality standards.

Document the process, including mixing ratios, environmental conditions, and any deviations from the standard procedure.

This method statement should be adapted to the specific project requirements and the manufacturer's guidelines for the product being used.