

# Guideline Procedures for Coatings Mock-ups

## SCOPE

Mock-ups are an important part of the construction process. A mock-up serves to manage the expectations for the customer while confirming to all parties the color, texture, coverage rates and workmanship of the final system to be applied to the structure. The intent of this document is to assist in a successful application of a high-build coatings job mock-up.

## GENERAL PRACTICES

1. Field samples need to be applied at least one week prior to any specified coatings pre-installation site conference.
2. The location and size should be dictated by the specifications or at the direction of the Project/Construction Manager, or owner. The mock-up should be located where it can be viewed easily from the ground. The location should be recorded and noted for future consultation.
3. High-build coatings are best applied out of the direct sunlight.
4. An accepted sample mock-up needs to be maintained during construction, should not be altered or destroyed, and will be the standard for judging color, texture and workmanship on the remainder of the project.
5. A complete mock-up system must be applied, to include base, primer materials or multiple coats, as specified. A block filler should be used if required as per the specification.

## SURFACE PREPARATION

1. Surface preparation is extremely important for proper adhesion. Substrates must be sound and free of dust, dirt, laitance, oils, curing

compounds, efflorescence, mildew/fungus or any other residue or contaminants that could prevent good adhesion.

2. Use of high-pressure waterblasting with or without abrasives added to the water stream to achieve a surface texture similar to 100 grit sandpaper is the easiest and most successful method used. Proper power washing techniques need to be followed.
3. Address all bug holes and cracks according to manufacturer's recommendations.
4. Excessive preparation methods that do not truly reflect what will be used over the entire site cannot be used for a site mock-up.

## NON-MASONRY SUBSTRATE, STUCCO, EXISTING COATINGS, EIFS

Contact Master Builders Solutions Technical Services for recommendations.

## APPLICATION

1. Use only approved/specified materials of the proper color, which have been properly stored in accordance with the written specification.
2. Adhere to all substrate and temperature requirements for the specified product being applied. Should any questions arise, do not exceed the limitations outlined in the proper Master Builders Solutions product data sheet.
3. Mix each product thoroughly with a slow-speed drill (500 rpm or less) and mixing paddle to ensure uniform color and aggregate distribution and to minimize air entrapment.
4. Master Builders Solutions high-build coatings are typically applied by roller or sprayed and backrolled in one direction. A brush can be used for "cutting in" or tight spaces. A typical

80 to 100 ft<sup>2</sup>/gal specification will require the material to be applied at approximately 14 to 16 wet mils, depending on the substrate porosity/texture.

5. Always work to a natural break and maintain a wet edge during application.
6. On block and other porous substrates, the objective is to obtain a pinhole-free finish.

## ROLLER APPLICATIONS

1. Use a quality 1/2" to 1-1/4" nap roller cover (lamb's wool preferred).
2. Completely saturate the roller and keep it loaded with the coating to build the required mils. Never dry roll.
3. Roll the coating in a consistent fanlike pattern to achieve uniform mil thickness.
4. Keep going to the bucket for more product, laying it on without spreading it too far.
5. Cross roll to achieve uniform thickness and maintain a wet edge. Back roll in one direction as stroke variations may result in uneven color and texture.

## SPRAY APPLICATIONS

1. Equipment is available for spraying all grades of Master Builders Solutions coatings. The smooth materials will pass through a large airless pump; however, the heavy bodied and textured coatings will require heavy-duty equipment designed for the application of these types of materials. Gun pressure should be approximately 30 psi. Tip size should be between 0.29 to 0.35 inches, with most applicators using as large a tip as their equipment can accommodate. Contact Master Builders Solutions Technical Service for further recommendations.

2. Backrolling after spray applications is required to achieve a uniform texture and film thickness. Never backroll a Heavy Tex, Tex or TW coating as the coarse aggregate will hang in the roller and separate/cornrow on the wall.

#### **CLEAN UP**

1. Clean up should begin as soon as the work is complete.
2. Warm soapy water works well with acrylic coating.
3. Use xylene to clean up MasterProtect® 20. Do not use mineral spirits.

#### **ADHESION TESTING**

If there is any question about adhesion of a Master Builders Solutions high-build coating to the substrate or a previously applied coating, adhesion can be field tested using ASTM D-3359 Measuring Adhesion by Tape, Method A. A minimum adhesion rating of 4A is required on a 0 to 5 scale.

**CONTACT MASTER BUILDERS SOLUTIONS TECHNICAL SUPPORT (+1 (800) 589-1336) FOR MORE DETAILS OR QUESTIONS ON A MOCK-UP APPLICATION.**

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**IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.**

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