



SMART *Brief*

T E C H N I C A L B U L L E T I N

DATE: Wednesday May 30th, 2007 **No:** SB-053007
TO: Contractors & Distributors **Page** 1 of 1
FROM: Metro Technical Services Division
SUBJECT: **Installing Metro Panels when Wet**

General Information

Metro's stone-coated steel roof products and accessories are manufactured using a proprietary formulated, water based acrylic resin adhesive. This adhesive is used to adhere the stone chip granules to the steel substrate and is applied in a liquid state and oven dried to allow packing and storage of the panels. At the point of packing the materials, the adhesive is not fully cured, which assists with the on site formability of the panels during the installation of the roof.

Metro Basecoat Adhesive

The basecoat adhesive formulation is designed to be tough enough, and sufficiently pliable, to withstand the installation cutting, bending, and foot traffic. Additional consideration is made in the coating formulation to accommodate installations in both hot and cold climates. There is however a tradeoff in the coating formulation of the basecoat adhesive. With the adhesive not fully cured at the time the panels are installed on the roof, the panels are susceptible to scuffing from foot traffic when subjected to prolonged periods of water saturation. This condition occurs only while the panels remain wet, and is of no concern once the panels are dry. After several months of panel exposure on the roof, the adhesive fully cures and the panels are no longer susceptible to scuffing when water saturated.

Panel Wet Scuffing

It is for the above reasons that Metro instructs its distributors and contractors to store panels inside or covered with a water-proof tarp (*Factory Pallet Wrapping is not a sufficient water proof cover*) if stored outside. If panels do get scuffed, the coating can easily be repaired using the Metro touch-up kit. Panels scuffed during a wet day will dry out and fully cure with no impact to their overall life-span or coating performance. Metro will not replace panels that have been damaged by scuffing during wet conditions. Our recommendation during the installation process is to exercise caution when walking on wet Metro panels or to overlay extra panels in heavily anticipated traffic patterns. Of course, there is no issue if the Metro panels are installed in dry conditions.

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