

Technical Bulletin

INSTALLING STONE COATED STEEL PANELS WHEN “WET”

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General Information

Unified Steel[™] 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 packaging and storage of the panels. At the point of packing the materials, the adhesive is not fully cured, which assists with on-site formability of the panels during the installation of the roof.

Unified Steel[™] Base Coat Adhesive

The base coat adhesive formulation is designed to be tough enough, and sufficiently pliable, to withstand the cutting, bending, and foot traffic associated with the installation process. Additional consideration is made in the coating formulation to accommodate installations in both hot and cold climates. There is, however, a trade-off in the coating formulation of the base coat adhesive. If the adhesive is 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 a time of sun exposure of the panels, the adhesive will fully cure, and the panels will no longer be susceptible to scuffing when water saturated.

WET PANEL SCUFFING

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

Current Technical Bulletins are listed on our website at WestlakeRoyalRoofing.com and we reserve the right to amend or update these documents at any time.

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