ROOF MATE
BASECOAT
HIGH SOLIDS ADVANCED ACRYLIC ELASTOMER

Technical Data & Application Instructions

PRODUCT DESCRIPTION

ROOF MATE BASECOAT is a 60% volume solids, water-based acrylic elastomer coating utilizing the latest advances in acrylic technology. It combines acrylic emulsion polymers with reinforcing laminar pigments, powerful biocides and non-migrating fire retardants for superior physical properties, adhesion, durability, weatherproofing, mildew resistance and fire retardancy. The fire retardant chemicals are permanently locked into the cured coating and will not leach out upon extended weathering. **ROOF MATE BASECOAT** is a "breathing" coating, allowing moisture vapor to pass through the film while remaining impervious to mass water penetration.

BASIC USES

ROOF MATE BASECOAT was especially developed for use in embedding reinforcement fabric at detail areas and/or over the entire roof. It is also used for achieving film build prior to topcoating with **ROOF MATE**, **ROOF MATE QS**, **ROOF MATE HT** or **ROOFSHIELD Finish Coat**. It is formulated to achieve superior adhesion over metal, conventional built-up, modified bitumen, single-ply, concrete, board-stock and sprayed-in-place polyurethane foam, and composite shingle roof substrates. **ROOF MATE BASECOAT** forms a waterproof elastomeric seal, uniformly covering the textured profile of these substrates.

COLORS

ROOF MATE BASECOAT is available in standard medium gray color, which provides for a high visual contrast with the application of the subsequent **ROOF MATE Finish Coat**. The finish coat is available in White, Solar Gray, Light Tan and Tan, as well as an unlimited selection of custom colors to meet specific project requirements. Color chips or samples must be furnished to UNITED for all custom colors.

PACKAGING

ROOF MATE BASECOAT is a single-component material available in 5-gallon (19 liter) pails and 55-gallon (208 liter) drums.

MIXING

Use a power mixer capable of uniformly mixing the entire container prior to use. **ROOF MATE BASECOAT** is easily pumped and sprayed at material temperatures of 60°F (16°C) or greater. **Reducing the mixture is not recommended**, as it affects the coatings ability to achieve a heavy film build with excellent vertical hold and hide.

SURFACE PREPARATION

All surfaces must be clean and dry, and free of any dirt, dust, oil, surface chemicals or other contaminants that may interfere with optimum adhesion. All loose gravel, if present, shall be removed by power sweeping and/or vacuuming. Remaining gravel shall be power spud to achieve the smoothest surface possible. Any unsound areas in the roof, i.e. blisters, delamination, deterioration, moisture saturation, severe corrosion, sharp projections, ridges, etc. shall be repaired or replaced. New asphalt shall be exposed to ambient conditions for 45 to 60 days before coating.

Deteriorated or badly corroded metal shall be replaced. Rusted areas shall be mechanically abraded to remove all loose rust and then primed with UNITED'S **Acrylex 400** or **Lock-Down**. New metal roofs exhibiting any type of surface film shall be washed with a vinegar or muriatic acid solution, or equivalent, to totally remove this film.

Low areas that hold excessive ponding water must be brought into conformance by installing additional drains or adding additional slope to existing drains.

Surfaces that are contaminated with oil, grease, embedded dirt, loose paint or coating, etc. shall be cleaned using **United Cleaning Concentrate (UCC)**. High-pressure power washing may be necessary to remove tightly adhering contaminants. Power-rinse thoroughly with clean water to remove all traces of the **UCC** cleaner. If roof does not require chemical cleaning, thoroughly sweep, vacuum or blow down roof to remove any dirt, dust or other loose contaminants. Refer to separate **Roof Mate Master Guide Specifications** for complete surface preparation procedures on the specific substrate being coated.

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APPLICATION

Reinforce all "moving" cracks, seams, splits, control joints, vertical/horizontal interfaces, roof termination points, openings, transition areas, around the base of all vents pipes and other protrusions, as well as around HVAC units and other roof mounted equipment with **ROOF MATE Mesh**, a polyester reinforcement fabric, embedded into **ROOF MATE BASECOAT**.

Pre-measure the area to be reinforced and cut a strip of 4", 6" or 12" (10, 15 or 20 cm) **ROOF MATE Mesh** (depending upon the detail) to the desired length. Apply **ROOF MATE BASECOAT** liberally over the area to be detailed, at a minimum rate of 1.5 gallons per 100 sq. ft. (.6 l/m²), and embed the mesh so that it is centered over the detail area. Using a brush or roller, work the **ROOF MATE Mesh** into the **ROOF MATE BASECOAT** to eliminate air pockets, wrinkles and gaps. Apply additional **ROOF MATE BASECOAT** as necessary, at a minimum of 1 gallon per 100 sq. ft. (.4 l/m²), to ensure that the **ROOF MATE Mesh** is thoroughly saturated, encapsulated and fully adhered to the substrate.

When incorporating **ROOF MATE Fabric** for reinforcement of the entire roof, apply **ROOF MATE BASECOAT** at the rate of 1.5 gallons per 100 sq. ft. (.6 l/m²) to a 4' (1.2 m) wide section of roof where the fabric reinforcement will begin. Embed and encapsulate the end of the reinforcement fabric roll so that it is anchored at that point.

Roll or spray-apply **ROOF MATE BASECOAT** to a section of roof 4 to 10 feet (1.2 to 3 meters) beyond the fabric at the rate of approximately 1.5 gallons per 100 sq. ft. (.6 l/m²). Roll the reinforcement fabric over the wet **ROOF MATE BASECOAT**, allowing the fabric to conform to the surface contours. To ensure complete encapsulation of the fabric, it must be rolled into the **ROOF MATE BASECOAT** while it is still wet. Do not allow the **ROOF MATE BASECOAT** to surface skin prior to rolling out the fabric.

Work the **ROOF MATE BASECOAT** evenly throughout the **ROOF MATE Fabric** so that it is totally saturated, eliminating any air pockets, wrinkles or gaps. Apply an additional coat of **ROOF MATE BASECOAT** over the top of the saturated **ROOF MATE Fabric** at the rate of approximately 1 gallon per 100 sq. ft. (.4 l/m²) so that it is totally encapsulated. Take extra care to ensure that edges of the fabric are well saturated and adhered. Overlap consecutive passes of **ROOF MATE Fabric** a minimum of 2" (5 cm) on each side.

Substrate porosity and texture will determine the amount of **ROOF MATE BASECOAT** required to encapsulate the reinforcing fabric. Allow the **ROOF MATE BASECOAT** to dry thoroughly prior to applying **ROOF MATE Finish Coat** to the roof.

APPLICATION (Continued)

When using **ROOF MATE BASECOAT** to achieve film build prior to application of the **ROOF MATE Finish**, apply at the rate of 1 to 1½ gallons per 100 sq. ft. (.4 to .6 l/m²) per coat to achieve the desired film thickness.

ROOF MATE BASECOAT may be applied by airless spray equipment or roller. Brush or roller may be used for touch-up and edging work, or for small areas that are not practical for spray application. Airless spray is best suited for field application.

ROOF MATE BASECOAT can be used to obtain up to ½ of the total dry film thickness requirement specified. However, under no circumstances should the subsequent **ROOF MATE Finish** be less than 12 dry mils in thickness at any location.

LIMITATIONS & PRECAUTIONS

ROOF MATE BASECOAT should generally not be used over cold storage tanks or buildings where a vapor barrier is required. **ROOF MATE BASECOAT** will freeze and become unusable at temperatures below 32°F (0°C), or when there is a possibility of temperatures falling below 32°F (0°C) within a 24-hour period after application.

ROOF MATE BASECOAT requires complete evaporation of water to cure. Cool temperatures and high humidity retard cure. **Do not apply if weather conditions will not permit complete cure before rain, dew, fog or freezing temperatures occur**. Do not apply in the late afternoon if heavy moisture condensation may appear during the night.

ROOF MATE BASECOAT may be applied to a wide range of clean, dry and structurally sound substrates. Slope for positive drainage is recommended for any roofing application. It is the responsibility of the applicator to ensure that the roof is sound and sloped properly, and that the expansion joints, vents and flashings have been installed as specified or required.

Avoid breathing of vapor or spray mist. For exterior applications, approved (MSHA/NIOSH) chemical cartridge respirator must be worn by applicator and personnel in vicinity of application. Check filters frequently to ensure proper protection. If used indoors, provide mechanical exhaust ventilation. During indoor spray operations, air line masks or positive pressure hose masks must be worn. Avoid contact with eyes and contact with skin.

For specific information on safety requirements. Refer to OSHA guidelines and **ROOF MATE BASECOAT** Material Safety Data Sheet.

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