



Aqualoc GREY TOPCOAT

HIGH SOLIDS ADVANCED ACRYLIC ELASTOMER

Technical Data & Application Instructions

PRODUCT DESCRIPTION

AQUALOC Grey Topcoat 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. **AQUALOC Grey Topcoat** is a “breathing” coating, allowing moisture vapor to pass through the film while remaining impervious to mass water penetration.

BASIC USES

AQUALOC Grey Topcoat 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 top coating with **AQUALOC Ceramic Topcoat**. 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. **AQUALOC Grey Topcoat** forms a waterproof elastomeric seal, uniformly covering the textured profile of these substrates.

COLORS

AQUALOC Grey Topcoat is available in standard medium gray color, which provides for a high visual contrast with the application of the subsequent **AQUALOC Ceramic Topcoat**. The ceramic topcoat is available in White or can be tinted to any pastel colour to meet specific project requirements.

PACKAGING

AQUALOC Grey Topcoat 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. **AQUALOC Grey Topcoat** 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. 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 and using High-pressure power washing may be necessary to remove tightly adhering contaminants. If roof does not require chemical cleaning, thoroughly sweep, vacuum or blow down roof to remove any dirt, dust or other loose contaminants.

APPLICATION

Reinforce all “moving” cracks, seams, splits, control joints, vertical/horizontal interfaces, and 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 **AQ Mesh**, a polyester reinforcement fabric, embedded into **AQUALOC Grey Topcoat**.



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Pre-measure the area to be reinforced and cut a strip of 4", 6" or 12" (10, 15 or 20 cm) **AQ Mesh** (depending upon the detail) to the desired length. Apply **AQUALOC Grey Topcoat** 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 **AQ Mesh** into the **AQUALOC Grey Topcoat** to eliminate air pockets, wrinkles and gaps. Apply additional **AQUALOC Grey Topcoat** as necessary, at a minimum of 1 gallon per 100 sq. ft. (.4 l/m²), to ensure that the **AQ Mesh** is thoroughly saturated, encapsulated and fully adhered to the substrate.

When incorporating **AQ Mesh** for reinforcement of the entire roof, apply **AQUALOC Grey Topcoat** 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 **AQUALOC Grey Topcoat** 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 **AQUALOC Grey Topcoat**, allowing the fabric to conform to the surface contours. To ensure complete encapsulation of the fabric, it must be rolled into the **AQUALOC Grey Topcoat** while it is still wet. Do not allow the **AQUALOC Grey Topcoat** to surface skin prior to rolling out the fabric. Work the **AQUALOC Grey Topcoat** evenly throughout the **AQ Fabric** so that it is totally saturated, eliminating any air pockets, wrinkles or gaps. Apply an additional coat of **AQUALOC Grey Topcoat** over the top of the saturated **AQ 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 **AQ Fabric** a minimum of 2" (5 cm) on each side. Substrate porosity and texture will determine the amount of **AQUALOC GREY TOPCOAT** required to encapsulate the reinforcing fabric. Allow the **AQUALOC Grey Topcoat** to dry thoroughly prior to applying **AQUALOC Ceramic Topcoat** to the roof.

When using **AQUALOC Grey Topcoat** to achieve film build prior to application of the **AQUALOC Ceramic Topcoat**, 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.

AQUALOC Grey Topcoat 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.

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

LIMITATIONS & PRECAUTIONS

AQUALOC Grey Topcoat should generally not be used over cold storage tanks or buildings where a vapor barrier is required. **AQUALOC Grey Topcoat** 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.

AQUALOC Grey Topcoat 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.

AQUALOC Grey Topcoat 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.