# TUFFCOAT ™

## ACRYLIC EPOXY / EMULSION COATING

## Technical Data & Application Instructions

### PRODUCT DESCRIPTION

**TUFFCOAT** is a high quality water-based acrylic finish incorporating an epoxy additive to increase the abrasion resistance properties of the film. Special spherical silica sand is suspended in the emulsion to provide a fine uniform texture. This silica can be eliminated for projects requiring a smooth finish.
**TUFFCOAT** provides a durable colored topping for horizontal concrete and asphalt surfaces. In addition, its satin sheen makes **TUFFCOAT** an aesthetically pleasing wall dressing that effectively evens out texture and color variations over various concrete substrates.

### BASIC USES

**TUFFCOAT** was specifically developed for use over concrete and Top Coats for all AWC Coatings such as Roof 540, Seal Tuff & Seal Coat surfaces where a durable colored coating is required. Its epoxy modified acrylic finish is designed to resist abrasion, weathering and moisture degradation. **TUFFCOAT** is recommended for use on recreational courts, walkways, pool decks, tennis courts, patio decks and floors. It is also specified as a fine texture, weather resistant colored finish on vertical surfaces such as building exteriors, highway bridge structures, median barriers, retaining walls and noise abatement walls. In addition, **TUFFCOAT** is effective over **ROOF 540** or other roof coatings to delineate walkways and/or service areas, as well as incorporate non-skid properties.
**TUFFCOAT** can also be used in combination with AWC Basecoat on applications requiring a waterproof membrane top coated with a non-skid colored finish. This system is particularly effective on above grade tennis courts and recreational decks as well as balconies and lanais.

### PACKAGING & MIXING

**TUFFCOAT** is a single package material available in only 20kg Bucket. **TUFFCOAT** should be thoroughly mixed prior to application utilizing a power mixer capable of uniformly mixing the entire container. When using the textured formulation, mix the container periodically to prevent settling of the non-skid texture aggregate.

### PHYSICAL PROPERTIES

***Solids by Weight:***
52% [ASTM D2369]
***Solids by Volume:***
38% [ASTM D2697]
***Weight per Gallon:***
10.5 lbs. (4.8 kg) (±.5)
***Flash Point:***
>200°F (93°C) [ASTM D3278]
***Dry Time:***
To Touch: 30 minutes To Recoat: 1 to 2 hours @ 75°F (24°C), 50% R.H. [ASTM D1640]

***Cure Time:***
48 hours @ 75°F (24°C), 50% R.H. [ASTM D1640]
***Gloss:***
2.5 (60° Gardner) [ASTM D523]
***Hardness:***
3H pencil [ASTM D3363]
***Temperature Limits for Normal Service Conditions:***
-30°F to 150°F (-34°C to 66°C)

## ADVANTAGES

- Single package, water-based system for ease of application and clean-up.
- Bonds tenaciously to concrete, masonry and various acrylic coatings.
- Resists ultraviolet degradation for long term protection and color stability.
- Provides durable, non-skid texture on interior or exterior surfaces.
- Resists wear and abrasion through the incorporation of an epoxy additive.
- Protects against asphalt degradation by sealing in the vital oils of the asphalt mix.
- Helps prevent dusting and spalling of concrete surfaces.
- Surfaces resist penetration from general soils, motor oils and gasoline for ease in cleaning.
- No toxic fumes or objectionable odor. Meets all VOC requirements.

## COLORS

**TUFFCOAT** is available in eight standard colors: **Flint Gray, Concrete Gray, Smoke Gray, Burlap, Sandstone, Brownstone, Tile Red** and **Turf Green,** as well as **Black** and **White.** Custom color selection is virtually unlimited to meet specific project requirements. Color chips or samples must be submitted for all custom colors.

## SURFACE PREPARATION

All surfaces must be structurally sound, clean, dry, fully cured, and free from dust, curing agents or form release agents, efflorescence, scale or other foreign contaminants. Concrete and masonry surfaces shall be free of sharp projections, ridges and loose aggregate. Prior to application over vertical masonry block, **Block Filler** or another approved block filler must be used to fill the pores and achieve a pinhole free surface.

Concrete or asphalt surfaces can be repaired, sloped or resurfaced utilizing **Seal-Crete**, a polymer modified concrete. Mix with water to the desired consistency and apply as per instructions on container.

New concrete shall be cleaned and etched, then rinsed with liberal amounts of fresh water to assure complete acid removal. Sandblasting of concrete will be required if the surfaces are contaminated to the point that alternate cleaning methods are ineffective. Concrete surfaces having a smooth, steel trowelled finish must be acid etched or sandblasted.

All asphalt shall be allowed to age a minimum of 60 days prior to the application of **TUFFCOAT.** A test application is recommended over new asphalt to assure there is no bleed-through of the asphaltic oils.

Prior to sealer application, all loose material, foreign objects, dirt and dust shall be removed by use of a power vacuum or compressed air. Immediately following final cleaning, concrete and asphalt surfaces shall be sealed with one coat of **AWC Tile Sealer** or **AWCseal** respectively. After the sealer has completely dried, existing hairline cracks shall be filled with an approved acrylic or single component urethane sealant. All cracks larger than hairline should be considered as "moving" and shall be routed and cleaned prior to application of sealant. Sealant shall be trowelled flush with sufficient pressure to fill the cracks and joints completely. At the intersection of all vertical and horizontal surfaces, apply a ½" (1.3" cm) sealant bead, tooled slightly concave, and extended a minimum of 1½" (3.8" cm) vertically and horizontally. Use backer- rod or other bond breaker on moving cracks.

## APPLICATION

Prior to the application of **TUFFCOAT,** concrete surfaces shall be primed with one coat of AWC Tuff Coat Primer applied at the rate of 400 to 450 sq. ft. per 20kg Bucket. Over surfaces, or over concrete when an all water-based system is required, prime with AWC Tuff Coat Primer. Reduce as necessary with water to achieve adequate penetration over dense surfaces. Apply the primer at the rate of 400 to 450 sq. ft. per 20kg Bucket. For additional details on primer application, refer Technical Data & Application Instructions or Call our Technical Representative.

**TUFFCOAT** may be applied by brush, roller or airless spray. The textured finish must be roller applied utilizing a ¼" to ½" (6 to 13 mm) nap roller. Brush application can be used for edge work or confined areas inaccessible by roller. Airless spray may be utilized to apply the smooth finish over substrates that have a heavy surface texture already or do not require non-skid protection.

**TUFFCOAT** shall be applied in two (2) separate coats to assure even coverage and proper films build. Apply at the rate of 300 to 350 sq. ft. per 20kg Bucket. All surfaces must be uniformly coated and free from voids, pinholes and blisters. Successive coats of **TUFFCOAT** should be applied perpendicular to and as soon as the previous coat has dried sufficiently to allow the applicator to walk on. This is normally accomplished within 2 hours, but in any event before contamination occurs. If contamination does occur on any coated surface, it must be broomed or if necessary, pressure washed before additional coats are applied. **TUFFCOAT** should extend a mini- mum of 4" (10 cm) up vertical walls or projections to create a self-terminating flashing.
When **TUFFCOAT** is applied over existing primed metal, apply coating to a small test area to ensure proper adhesion. All bare metal surfaces must be primed with **AWC Tuff Coat Primer** applied at 400 to 450 sq. ft. per 20kg Bucket.
**TUFFCOAT** cures to an attractive flat finish. If a semi-gloss sheen is desired, or for ease of clean ability in high traffic or other areas subject to dirt pick-up, Brush or roller is easily cleaned with soapy water. Clean spray equipment with water and final flush with a mixture of water and Lacquer Thinner or water and Methyl Ethyl Ketone (MEK).

## LIMITATIONS & PRECAUTIONS

**TUFFCOAT** requires complete evaporation of water to cure. Cool temperatures and high humidity retard cure. Do not apply during weather conditions such as rain, fog, or freezing temperatures, or if such conditions are imminent.

Do not apply **TUFFCOAT** at temperatures below 50°F (10°C) or when there is a possibility of temperatures falling below 32°F (0°C). Do not ship or store unless protection from freezing is available.

**AWC [Architectural Waterproofing Corporation]**
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