

TECHNICAL DATA

DURACRETE SST TOPPING

DESCRIPTION: Duracrete SST is a self-levelling epoxy binder enhanced with aggregates, designed to give impact, thermal shock and abrasion resistance to concrete substrates. The combined resin and hardener and filler components are applied to a suitably prepared and primed substrate using a notched trowel or pin screed and allowed to flow to level. Graded silica sand or selected aggregates are then broadcast evenly over, to excess. After overnight cure, the excess sand is removed and the surface lightly dressed with a grindstone. The surface is then sealed with a finish coat to produce the desired balance of slip resistance and cleanability. This technique allows for rapid installation and a constant finish on a properly prepared substrate. Various hardeners are available to give varying cure rates and chemical resistance.

INTENDED USE: Duracrete SST topping is designed for use in the food processing, baking, beverage, dairy and meat industries, and in general workshop and garage areas, especially in the following applications:

- as a slip resistant, hardwearing, medium duty floor coating on a suitably prepared wooden or concrete substrate.
- on inclined ramps and sloping floors
- over sound substrates to upgrade the surface performance
- as an economical topping system
- applied in double thickness, as a heavy duty topping for maximum impact resistance.

CHEMICAL RESISTANCE: Generally high chemical resistance, especially to caustic exposure. Performance can be enhanced by appropriate selection of sealing and finishing coats.

SURFACE PREPARATION: Surfaces should be cleaned, prepared and primed as outlined in the preparation section of the Duracrete EMT Application Brochure, available on request.

MIXING: Duracrete SST binder is a two component epoxy, and the components must be mixed together immediately before use in the correct proportion. Pigment paste can be added to give through-build colour. Follow the mixing ratios on the labels and refer to the Mixing Instructions information sheet.

Mix all of the fillers and pigment paste into the resin component for 2-3 minutes using a slow-speed drill (300-400 rpm) and jiffy blade, or similar. Add hardener and continue mixing for another 2-3 minutes, stopping at least once to scrape the sides and bottom to fully incorporate the boundary layer.

APPLICATION: Apply SST binder using notched trowels or pin screeds to a wet film thickness of 1.6-2.0mm. Allow to flow out and level. Aid this process by thoroughly rolling with polypropylene porcupine roller. Use nail shoes to walk over laid surface to attend to local defects.

When surface is blemish-free, broadcast evenly with dried silica sand, nominal particle size 300 microns (J61W/F04 or selected decorative aggregate). Vary the thickness of the binder system to meet target build (normally 3.0-3.5mm build). Coarse sands may be used for rougher finishes. Sand must be added to excess - i.e. no visible damp patches on the surface.

After overnight cure, remove excess sand, and lightly dress with hand stones to remove blemishes and resweep the surface. Repeat process for double application heavy-duty performance. Topcoat with Duracoat ESF or Duracoat AUSF finish colour.

Do not use thinners or solvents in mix.
Clean equipment with water-rinseable Uroxsys CCS.

TECHNICAL DATA:

Components: SST epoxy resin
SST epoxy hardener
Pigment Paste - optional
Silica fillers F04, F07
Sand
Application: See Applicator Notes for mix ratios and application instructions

OVERCOATING: Overcoating if required, should be carried out no sooner than 8 hours after the original application, and within 3 days at 20°C. Avoid trafficking of dirt or contaminants over the surface before overcoating. SST topping can be sealed with a variety of Uroxsys specialist finishing coats, including:

- Uroxsys Duracoat ESF epoxy for satin non-slip
- Uroxsys Duracoat AUSF for fast curing satin non-slip, especially if SST has to be seal coated after normal 3 day overcoating window.
- Uroxsys ECS clear, for natural colour seal.

Consult Uroxsys for specific recommendations.

CURE: Pot life of this product is approximately 30 minutes at 20°C. Sand must be broadcast on to laid SST binder within 1 hour of application. Do not remove excess sand or traffic over until epoxy bound layer is firm (usually overnight).

CAUTION: The cure of epoxy products can be affected by moisture, which reacts with the hardener to give a surface "bloom". This blooming can give a permanent loss of gloss, less than normal chemical and physical resistance at the surface, and affect inter-coat adhesion if over-coated.

1. Take all reasonable steps to minimise the risk of water, moisture, or excessive humidity exposure during the cure period (which may be several days in cold temperatures).
2. Solvent clean cured surface with MEK or acetone before recoating or overcoating to remove any surface bloom. Sanding may be required if surface remains tacky after solvent wiping.

COLOURS: Standard colours are natural, red, beige and grey. Some other colours are available on request.

PACK SIZE AND COVERAGE: Bulk supplied for batching on site.

HEALTH & SAFETY: Wear protective clothing and safety goggles. Gloves are essential. Avoid contact with exposed skin. Before commencing work, apply barrier cream.

This information is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

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