



TECHNICAL DATA

DURACRETE EMT (H25) EPOXY MORTAR TOPPING

DESCRIPTION

Duracrete EMT is a modified cycloaliphatic amine cured epoxy mortar formulated to give the optimum combination of chemical resistance, physical strength and colour stability.

This resin and hardener system allows for production of decorative and light colours.

INTENDED USE:

This product is a heavy duty protective floor topping for use in the dairy, meat and food processing industries and is MAF approved. It performs well in environments where there are aggressive chemicals or products, high abrasion and temperature cycling. The finished surface is easily cleaned and slip resistant.

CHEMICAL RESISTANCE:

Not affected by water, oil, brine, or mild acids or alkalis. For specific chemical resistance properties, refer to the information sheet on "Chemical resistance of Duracrete EMT".

FEATURES

Excellent substrate wetting characteristics.
Extended pot life with relatively short film cure time.
Cures well in humid and cold conditions.
Available in winter and summer formulations.

PHYSICAL DATA (typical)

Compressive strength:	DIN1164	80 N/mm ²
Tensile strength in flexure:	DIN1164	30 N/mm ²
Density:		ca 1.02 g/cm ³
Co-efficient of linear thermal expansion:		ca 20 x 10 ⁻⁶ /°C
Electrical conductivity:		ca 10 ¹³ Ohm
Co-efficient of heat conductivity		ca 0.3 k cal/mh°C
Abrasion resistance, Bohme method:		ca 6 cm ³ /50 cm ²

INSTALLATIONNote: The following information is intended as an outline only. For detailed information refer to the Application Brochure and for specific recommendations consult Uroxsys direct. Normal application thickness is 4-6mm.

Preparation:

Surfaces to be overlaid must be thoroughly cleaned and keyed. Unsound toppings or surfaces must be removed and defects repaired.

Priming:

Duracrete EMT must only be installed using an appropriate primer. Generally, for concrete surfaces, this would be Duraprime AEP.

Mixing:

Mix ratio is 1kg Resin to 575 gm Hardener H25. The basic mortar mix is
EMT Resin 5.70 kg

EMT Hardener	3.30 kg
Walton Park 10/30 aggregate	25.00 kg
Walton Park 18/36	25.00 kg
J61W Silica sand aggregate	8-16 kg

(Varying the J61W silica sand varies the texture of the laid product from open to smooth.)

Application:

Duracrete EMT has a high loading of abrasion and chemical resistant aggregates to complement the quality epoxy binder system. Normally it can only be applied manually using special trowels. The application labour content is commonly within the range of 3-5 square meters per man per hour. The system must be applied by a competent applicator with the appropriate weighing and mixing equipment. Product is supplied in bulk. When mixing from bulk supply **components must be weighed to an accuracy of plus or minus 5%**, using accurate scales only. Mixing should be done in a horizontal shaft paddle mortar mixer, mixing the resin and hardener components first, then adding the inert aggregates. For consistent appearance, each batch should be mixed for the same time. Mixing time should not be less than 1 minute or more than 3 minutes.

Cure:

Duracrete EMT has an approximate handling time of 30-60 minutes, a foot traffic only time of 8-12 hours, and a heavy duty use time of 2 days at 15 degrees Celsius.

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.

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).

SAFETY DATA:

Wear protective clothing. 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.

EMTH25,TD4/0807