

MC-DUR ET25

Two-component chemical resistant coal tar Epoxy coating for steel and concrete surfaces.

PRODUCT DESCRIPTION: **MC-DUR ET25** is a thixotropic, tar extended, two pack Epoxy formulation, containing inert, reinforcing fillers and a special blend of solvents.
It is supplied in pre-measured quantities ready for site mixing and use.

PRODUCT PROPERTIES:

- High film build in a single application.
- Easily applied by brush and airless spray.
- Provides long term protection.
- No primer necessary.
- Economic and versatile.

AREAS OF APPLICATION:

- Protecting concrete and metal structures in harsh environments.
- The material is particularly useful and economic in dirty water situations such as sewage works, effluent plants and dock and harbour installations.

APPLICATION NOTES:

- **Preparation - Concrete surfaces:**
 - All surfaces must be dry, smooth, sound and free from debris and loose material. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth.
 - Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds.
 - All surfaces should then be grit blasted to remove all foreign matter, and provide a suitable key for **MC-DUR ET25**.
 - All below holes and imperfections should be filled with MC-BetoSolid AS proprietary epoxy putty sealing compound. Consult the local data sheet for pot life and over-coating time.
- **Preparation - Steel surfaces:**
 - Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth, grit blasted are recommend.
 - The lining work should be programmed so that newly cleaned steel is coated as soon as possible before the formation of rust or scale.
- **Mixing:**
 - The contents of the base can be stirred thoroughly to disperse any settlement.
 - The entire contents of the hardener tin should be added to the base container and mixed thoroughly until a uniform colour and consistency are obtained, taking particular care to scrape the sides and bottom of the container. It is recommended that mechanical mixing be employed using a heavy duty, slow speed electric drill.
- **Application:**
 - The minimum application temperature is 5°C.
 - All surfaces should be treated with at least two coats of **MC-DUR ET25**.
 - The first coat should be applied by brush or airless spray to achieve a uniform coating with a wet film thickness not less than 260 microns. This coat should be allowed to dry for 16 hours at 20°C.
 - The second coat should be applied as above, again achieving a wet film thickness not less than 260 microns. If a wet film thickness of 260 microns per coat is not achievable, nor desired because of possible problem with solvent entrapment, then the number of coats must be increased.

- **Limitation:**
 - **MC-DUR ET25** is formulated for application to clean, sound concrete and steel.
 - **MC-DUR ET25** should not be applied over existing coatings.
 - Application should not be undertaken if the temperature is below 5°C, or is 5°C and falling, nor when the prevailing Relative Humidity exceeds 90%.
 - **MC-DUR ET25** is not colour stable when exposed to direct sunlight, nor when in contact with some chemicals.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments	
Solid content by volume	%	90 ± 3		
Tensile adhesion strength	N/mm ²	~2	ASTM D7234-12	
Thermal resistance	°C	Up to 60	07 days	
Mixing ratio	By weight	1 : 6	Component A : Component B	
Consumption	kg/m ²	0.2 – 0.25	Per coat, minimum 2 coats	
Layer thickness (2 coats)	micron	~ 260 ~ 220	Wet film thickness Dry film thickness	
Ambient air temperature	°C	Min. +10 – Max. + 30		
Substrate temperature	°C	Min. +10 – Max. + 30		
Pot life	hours	~ 2	At 25°C	
Waiting time / Overcoating	hours	Min. 8 – Max. 36	The waiting time between applications depend largely on temperature and weather. Lower temperature will increase the minimum time and increase the maximum time. To ensure good intercoat adhesion, light grinding of the previous coat followed by a through de-dusting is required.	
Chemical resistance	Exposure	Immersion	Plash and spillage	Fumes
	Acids	Very good	Excellent	Excellent
	Alkalies	Very good	Excellent	Excellent
	Solvents	Good	Very good	Excellent
	Salts	Excellent	Excellent	Excellent
	Water	Excellent	Excellent	Excellent

PRODUCT CHARACTERISTICS:

Cleaning	MC-Thinner EP Water or water-based cleaners should not be used under any circumstances.
Color (mixture)	Black.
Packaging	21 kg/ set.
Storage condition	Store in dry conditions at temperatures between 5°C and 30°C in the original, unopened containers. If stored at high temperatures the shelf life may be reduced. .
Shelf life	18 months from manufacturing date.
Disposal	Packaging must be completely used before disposal.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

Edition **11/2025**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.