



TE50B

TEMACOAT RM 40

The epoxy systems TE50B are recommended for steel surfaces exposed to abrasion, chemicals, high humidity and climate in indoor and outdoor applications, also for submerged and underground constructions.

TEMACOAT RM 40 is available in many colours, also light ones, which makes it easier to follow up the condition of the coating. The systems are suitable for application both in field and in painting shops.

Corrosivity categories according to ISO 12944	Tikkurila code	Treatment
Steel surfaces		
(12944-6:2018)		
Corrosivity categories/durability C2-H	TE50B	EP80/1-FeSa2½
Steel constructions exposed to mild condensation in cold indoor spaces and outdoors in clean rural environment.	TEMACOAT RM 40	<u>80 µm</u>
		DFT 80 µm
Zinc surfaces		
(12944-9:2018)		
Corrosivity categories/durability CX	TE50B	EP300/2-ZnSaS
Zinc surfaces outdoors in aggressive marine and offshore environment	TEMACOAT RM 40	<u>150 µm</u>
	TEMACOAT RM 40	<u>150 µm</u>
		DFT 300 µm

Marking of paint systems: TE50B-EN ISO 12944-6/ (EP80/1-FeSa2½)

COLOURS

Temacoat RM 40 is tintable with TEMASPEED Premium colorants, thus ensuring the possibility to get shades from RAL-, BS-, NCS- and other colour cards.

SUITABLE SHOP PRIMERS

Temablast EV 110, epoxy shop primer

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SURFACE PREPARATION	<p>Oil, grease, salts and dirt are removed by appropriate means. (EN ISO 12944-4)</p> <p><u>Steel surfaces:</u> Blast clean to grade Sa2½. (EN ISO 8501-1) If blast cleaning is not possible, phosphating is recommended for cold rolled steel to improve adhesion.</p> <p><u>Zinc surfaces:</u> Sweep blast clean with mineral abrasives, e.g. quartz sand, to an even roughness. (EN ISO 12944-4) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with Panssaripesu detergent. Hot dip galvanized surfaces are recommended to be painted with a misty coat (paint thinned 25-30%) before the actual priming.</p> <p>Damages in the zinc coating have to be repaired with TEMAZINC 99, a zinc rich epoxy paint. Before painting, clean the surfaces thoroughly (Sa2½/St3) and level off the edges around the cleaned areas.</p> <p><u>Primed surfaces:</u> Oil, grease, salt and dirt are removed from the surface by appropriate means. Repair any damage to the primer coat. Note the overcoating time of primer. (EN ISO 12944-4)</p>
APPLICATION CONDITIONS	<p>The surface must be clean and dry and the surface temperature should remain at least 3°C above the dew point. During application and drying the temperature of the air, paint and surface should be a minimum of +10°C. The relative humidity should not exceed 80%.</p> <p>Note! There is a natural tendency of epoxy coatings to chalk and discolor on exterior exposure.</p>
APPLICATION	<p>The paint should be mixed thoroughly before application and then applied in an even coat on the dry and clean surface. Application with airless or conventional spray, brush or roller. Stripe coating of sharp edges, welding seams etc. should be done by brush or roller.</p>
MAINTENANCE PAINTING	<p>Maintenance</p> <p>Touch-up painting is sufficient for maintenance when the rust grade is Ri1-Ri3. (EN ISO 4628-3) Damages caused by transport or installation may also be repaired by touch-up painting. Remove all loose paint, clean rusty areas according to system demands. On steel surfaces small areas can be grinded or wire brushed to preparation grade St2. (EN ISO 8501-1) Level off the edges between the old paint film and the cleaned up areas. When using blast cleaning, be sure that there are no cracks in the remaining paint film. If the entire surface has to be overcoated, abrade the old topcoat to a rough finish. Remove all dust and other cleaning residues. Apply primers and finish according to the original paint system, qualities and film thicknesses.</p> <p>Repainting</p> <p>When the rust grade is Ri4 or Ri5, the entire coating must be renewed. Remove the old paint film and clean the surfaces to preparation grade Sa2½. Recoat in accordance with the original paint system.</p>
PRODUCT INFORMATION	<p>More detailed product information is available in respective data sheets.</p>

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The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14101. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.