

COLTECH® M8 - EXT

TECHNICAL DATA SHEET
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Polyurethane Floor Coating Exterior Surfaces

Product description

The COLTECH M8 is a colored, one component, abrasion resistant, medium duty, aliphatic polyurethane, thin-layer coating used as a top-coat in exterior floor coating MARINE applications.

Cures by reaction with ground and air moisture.

Advantages

- Simple application (roller or airless spray).
- UV stable.
- Color stable.
- Vibration resistant.
- Resistant to constant, heavy abrasion and wear conditions.
- Heat and frost resistant.
- Decorative.
- When applied does not absorb liquids or dirt.
- Creates a dust-free surface.
- Gives a glossy and easy-to-clean surface.
- Chemical resistant.
- Maintains its mechanical properties over a temperature span of -20°C to +90°C.
- Over 20 years of positive feedback worldwide.

Uses

The COLTECH M8 is mainly used as a thin layer floor coating (top-coat) on polyurethane coatings for Marine applications on:

- Exterior & Interior ship decks
- Cabin Bathrooms,
- Cabin floors
- Ship Kitchens
- Engine rooms, etc.

Also used on interior & exterior concrete and wood surfaces as a dust-free, protective coating.

Consumption

0,300 - 0,400 kg/m² applied in two layers.

Colors

The COLTECH M8 is supplied in light grey, medium grey, dark green and brick-red. Other RAL colors may be supplied on demand.

Technical data*

PROPERTY	RESULTS	TEST METHOD
Composition	Pigmented Aliphatic Polyurethane Pre-polymer. Solvent based	
Density	1.2 g/cm ³	ASTM D 1475
Resistance to Water Pressure	No Leak at 7 atm.	DIN 1048
Adhesion to concrete	>1,5 N/mm ² (Concrete failure)	ASTM D 903
Hardness (Shore A Scale)	>95	ASTM D 2240
Solids Content	60 ± 2%	CALCULATED
Application Temperature	5°C to 35°C	
Tack Free Time	2-3 hours	Conditions:20°C,50%RH
Light Trafficking	12-18 hours	
Final Curing time	7 days	

Chemical properties**

Water	+	Hydrochloric acid 5%	+
Salt water (sea water)	+	Hydrochloric acid 5%	+
Sodium hydroxide 5%	+	Sulfuric acid 5%	+
Potassium hydroxide 5%	+	Ethanol 10%	+
Domestic Detergents	+	DMSO	-
Diesel oil	+	N-Methyl pyrrolidone (brake fluid)	-

{+ stable, - unstable, ± stable for a short period.}

7200M

Coating over the COLTECH M5

Surface Preparation

The COLTECH M5 surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the coating. Maximum moisture content should not exceed 5%.

WARNING: Do not wash surface with water!

Apply the first layer, of the coloured COLTECH M8 coating, by roller.
Allow 2-3 hours for the coating to cure (not more than 4 hours) and apply the second layer of the coloured COLTECH M8.
If desired, apply a third layer.

Coating over metal surfaces

Surface Preparation

Careful surface preparation is essential for optimum finish and durability.
The metal surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the coating. Maximum moisture content should not exceed 5%. The metal surface needs to be sandblasted. Old coatings, dirt, fats, oils, organic substances and dust need to be removed by sandblasting. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed. Prepare metal surfaces with suitable shop primer.

WARNING: Do not wash surface with water!

Priming

Prime prepared metal surfaces with the COLTECH M5 Primer, by using a roller, or a brush. After 12 hours - but not later than 24 hours –and apply the COLTECH M8 coating.

Coating

Apply the first layer, of the coloured COLTECH M8 coating, by roller.
Allow 2-3 hours for the coating to cure (not more than 4 hours) and apply the second layer of the coloured COLTECH M8.
If desired, apply a third layer.

Anti-slip Finish

In order to achieve an anti-slip effect we need to evenly sprinkle corundum (or silica sand) on the first layer of COLTECH M8 while still wet. When the layer is dry, brush off any excess aggregate and continue with the application of the second layer of the COLTECH M8.

WARNING: The COLTECH M5 and M8 system are slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our R+D Dept. for more details.

Packaging

Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5⁰-30⁰C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

See information supplied by the manufacturer. Please study the Safety Data sheet. **PROFESSIONAL USE ONLY**

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.
* All values represent typical values and are not part of the product specification. ** Chemical resistance tests time : 24hours.