

COLTECH[®] M2

TECHNICAL DATA SHEET
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Epoxy floor coating primer, solvent free

Product description

COLTECH M2 is a transparent, rigid, two component epoxy solvent-free primer

Cures by reaction (cross linking) of the two components

Uses

The COLTECH M2 is mainly used as a primer for polyurethane and epoxy floor coatings.

It can be used on surfaces like:

- Metal (various)
- Concrete
- Wood, etc

Advantages

- Simple application.
- Excellent anchoring to the surface.
- Solvent-free.
- Provides high tensile and impact strength.
- Strong resistance to chemicals, especially alkali solutions.
- Over 20 years of positive feedback worldwide.

Consumption

0,25 kg/m²

Colors

The COLTECH[®] M2 is supplied in transparent/yellowish.

Technical data*

PROPERTY	RESULTS	TEST METHOD
Composition	Epoxy resin + Hardener	
Mixing Ratio	A : B = 100 : 50 by weight	
Solid content	100%	CALCULATED
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN 1928, Test A
Adhesion to metal	>4 N/mm ²	ASTM D 903
Hardness (Shore D Scale)	70	ASTM D 2240
Application Temperature	11 ^o C to 35 ^o C	Conditions:20°C,50%RH
Pot Life	40 minutes	
Light Trafficking	12-24 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.}

2510

Application

Surface Preparation

Careful surface preparation is essential for optimum finish and durability.

The 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 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 smoothened. Any loose surface pieces and grinding dust need to be thoroughly removed. Prepare metal surfaces with suitable shop primer.

Repair of cracks:

Clean cracks and hairline cracks, of dust, residue or other contamination. Fill all cracks with suitable putty. The next day smoothen the putty surface with a sand paper or a mechanical grinder.

Mixing

Stir Component COLTECH M2 Component A well before using.

COLTECH® M2 Component A and Component B should be mixed by low speed mechanical stirrer, according to the stipulated mixing ratio, for about 3-5 min.

ATTENTION: The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous.

Priming

Prime all surfaces with the COLTECH M5 Primer, by using a roller, or a brush. Sprinkle oven dry silica sand (corn size 0,1-0,4mm) evenly onto the wet primer. After 12 hours - but not later than 24 hours – brush off any excessive aggregate and apply the COLTECH® M1 coating.

For best results, the temperature during application and cure should be between 11°C and 30°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

ATTENTION: Please ensure consumption within Pot Life. Do not apply primer when exothermic reaction has increased the temperature and the viscosity of the primer (indication of the ending of pot life)

WARNING: Do not apply the COLTECH M2 Primer, at ambient and ground temperatures under 10°C.

WARNING: The COLTECH® 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: 5^o-30^oC. 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.
