



industrial and decorative flooring
coatings for concrete and steel
Wearing courses for bridge decks and other constructions

HIM Products B.V. www.him.nl
 Maxwellstraat 2 tel. 0251 276 300
 1976 AD IJmuiden info@him.nl

HIM TF9000

Heavy duty, decorative, solvent free epoxy resin floor screed

Uses
HIM TF9000 has been designed for use as a seamless, mechanically strong floor screed in industrial environments. Typical areas of use include engineering plants, food processing and textile industries and storage areas. HIM TF9000 can also be applied on inclined surfaces, in stables and on galleries and balconies.
Product description
HIM TF9000 is a cold-curing three-component resin based mortar, consisting of blended epoxy resins, curing agents and graded inert aggregates. It is an in situ applied floor screed for use at a thickness of 5 - 7 mm. HIM TF9000 is applied in one layer, regardless of the thickness or irregularities in the substrate. The product is available in a range of standard colours.
Advantages
<ul style="list-style-type: none"> ▼ Hygienic – seamless floor ▼ durable – provides long term protection ▼ aesthetical appearance ▼ non taint- can be applied in close proximity to food ▼ chemical resistance – good resistance to a wide range of chemicals ▼ non-slip and easy to clean ▼ water tolerant in application phase
Colors
HIM TF9000 can be supplied in grey, red, beige, yellow, green, anthracite, white and naturel. All colors show white speckles. Additionally HIM TF9000 can be supplied with color pots in a wide range of RAL-colors. The final color of the floor will approach the RAL-color but will not be a perfect match.
Maintenance
The service life of a floor can be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary scrubbing machine with a water miscible cleaning agent at temperatures up to 50°C. During the first 7 days the floor should not be cleaned with a water based cleaning agent.
Flooring system
<ul style="list-style-type: none"> • HIM Primer 31, wet in wet followed by : • HIM TF9000 As a sealer we recommend: <ul style="list-style-type: none"> • HIM Sealer DS Thixo, followed by HIM FC150, FC215 or FC240 Clear Mat or Satin or <ul style="list-style-type: none"> • HIM FC450 NP (pigmented)

Technical data *)	HIM TF9000
Mixing ratio base : hardener : filler	6,3 : 2,8 : 90,9 (% w/w)
Specific gravity (mixed)	App. 2,0
Volume of solids (mixed)	100%
Temperature resistance	up to 75°C in air
Pot life at 20°C	app. 60 minutes
Curing at 20°C	Foot traffic after 24 hours, re-coatable after 1 day, vehicular traffic after 48 hours, fully cured after 7 days
Chemical resistance	the cured mortar is resistant to petrol, oils and fats, detergents, some aliphatic hydrocarbons and diluted alkalis. For further information on chemical resistance please contact HIM
Compressive strength	app. 80 N/mm ²
Flexural strength	app. 21 N/mm ² app. 60 minutes
Abrasion resistance (Amsler)	1000 cycles 0.20 mm 2000 cycles 0.64 mm 3000 cycles 1.21 mm
Fire rating (Euroclass)	B _{fl} S1
Impermeability (water)	Impermeable, provided properly mixed and compressed

*) For detailed information contact HIM.



industrial and decorative flooring
coatings for concrete and steel
Wearing courses for bridge decks and other constructions

HIM Products B.V. www.him.nl
Maxwellstraat 2 tel. 0251 276 300
1976 AD IJmuiden info@him.nl

Temperature limitations
HIM TF9000 shall not be applied at temperatures below 5°C, nor at a substrate temperature which is lower than the dewpoint temperature plus 3°C. The maximum application temperature is 35°C.
Surface preparation
It is essential to thoroughly prepare the floor surface in order to achieve a sound, clean and dry substrate. <i>Concrete substrates</i> : acidwash, gritblasting, milling, or a combination of these techniques. <i>Anhydrite substrates</i> : light gritblasting or grinding.
Limitations
New concrete floors should be at least 28 days old and contain less than 5% moisture. With non-self-supporting concrete floors transfer of moisture from the soil might occur, resulting in adhesion failures of the flooring system. In order to judge the suitability of a substrate beforehand : apply the rubber mat test. If the existing substrate is showing cracks or movement, this may show in the new applied layer. Existing expansion joints must be repeated in the new Floor. The concrete substrate should have a compressive strength of minimal 25 MPa and must be pre-treated properly to achieve the required adhesion. This allows a good adhesion of the first layer of the flooring system in order to obtain a minimal result of 1.5MPa in the pull-off test. The roughness should be in accordance with the coat thickness of the flooring system. Concrete substrates should show no vapor pressure. The water contents in anhydrite floors should be < 0.5% (CM method). In case the water contents in the floor is between 5% and 8% (CM method) or in case of vapor pressure, HIM Primer 36 (a water tolerant primer) should be used.
Primer
Apply HIM Primer 31 on the prepared substrate. Mix both components of the primer till a homogeneous mixture is obtained. HIM Primer 31 should be applied immediately with a roller or brush in a thin continuous film. Care should be taken to avoid over application or puddles. If the existing floor is very porous a second coat may be necessary.
Mixing
Proper mixing of the components is essential. Add the hardener to the base component and mix well for 1 minute. Add the filler and mix all components for another 3-4 minutes, until a homogeneous mix. Do not add solvents!! It is important that the components are intermixed thoroughly with a forced-action mixer or an approved spiral paddle in a slow speed heavy-duty drill so that no traces of the components remain unmixed.
Application
When mixed, HIM TF9000 should be applied immediately on to the wet HIM Primer 31. Alternatively HIM TF9000 can be applied on a dry HIM Primer 31, provided it was scattered with dry, coarse sand. Use a trowel or a rule to apply HIM TF9000 in the correct thickness and finish with a steel trowel. HIM TF9000 can also be applied with a screedbox and finished with a helicopter or steel trowel.
Material consumption (theoretical)
2 kg/m ² per mm of coat thickness
Finish
HIM TF9000 is sealed with HIM Sealer DS Thixo, followed by a finish coat of HIM FC150, FC215 or FC240 Clear Mat or Satin. Alternatively HIM FC450NP may be used. This is a pigmented sealer.
Safety precautions
Some of the components mentioned in this product information sheet, may be classified as irritant, flammable or corrosive. Material Safety Data Sheets, available for each component, must therefore be fully consulted in order to make sure relevant care is taken.
Tool cleaning
HIM TF9000 should be removed from tools and equipment with HIM Solvent 102 immediately after use.
Shelf life
HIM TF9000 has a shelf life of 12 months if kept in a dry, cool store in the original, unopened packs.
Disposal
Disposal of spillage or empty packaging should be in accordance with local waste disposal regulations. For further information refer to the Material Safety Data Sheet.
Pack size
HIM TF9000 is supplied in sets of 27,5 kg and 82,5 kg.
Flash points
HIM Primer 31 base > 100°C
HIM Primer 31 hardener > 100°C
HIM TF9000 base > 100°C
HIM TF9000 hardener > 100°C
HIM Sealer DS Thixo base > 100°C
HIM Sealer DS Thixo hardener > 100°C
HIM Solvent 102 32°C