



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

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# HIM TF9000 DECO

Heavy duty, decorative, solvent free epoxy resin floor screed

<b>Uses</b>
HIM TF9000 DECO has been designed for use as a seamless, decorative, mechanically strong floor screed in industrial environments. Typical areas of use include public buildings, health and care institutes, hospitals, offices, musea, laboratories, showrooms, hotels, schools and prisons.
<b>Product description</b>
HIM TF9000 DECO 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 in a thickness of 5 - 7 mm. HIM TF9000 DECO is applied in one layer, regardless of the thickness or irregularities in the substrate. The product is available in a range of standard colours.
<b>Advantages</b>
<ul style="list-style-type: none"> <li>▼ Hygienic – seamless floor</li> <li>▼ durable – provides long term protection</li> <li>▼ aesthetical appearance</li> <li>▼ non taint- can be applied in close proximity to food</li> <li>▼ chemical resistance – good resistance to a wide range of chemicals</li> <li>▼ non-slip and easy to clean</li> <li>▼ water tolerant in application phase</li> </ul>
<b>Colors</b>
HIM TF9000 DECO consists of a clear binder and colored quartz grains. Many colors and color mixes are available. See the color chart on our website.
<b>Maintenance</b>
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.
<b>Flooring system</b>
<ul style="list-style-type: none"> <li>• HIM Primer 31, wet in wet followed by :</li> <li>• HIM TF9000 DECO</li> <li>• HIM Sealer DS Thixo</li> <li>• HIM FC150, HIM FC215 or HIM FC240 Clear Mat or Satin</li> </ul>

Technical data *)	HIM TF9000 DECO
<b>Mixing ratio base : hardener : filler</b>	6,3 : 2,8 : 90,9 (% w/w)
<b>Specific gravity (mixed)</b>	App. 2,0
<b>Volume of solids (mixed)</b>	100%
<b>Temperature resistance</b>	up to 75°C in air
<b>Pot life at 20°C</b>	app. 60 minutes
<b>Curing at 20°C</b>	Foot traffic after 24 hours, re-coatable after 1 day, vehicular traffic after 48 hours, fully cured after 7 days
<b>Chemical resistance</b>	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
<b>Compressive strength</b>	app. 80 N/mm <sup>2</sup>
<b>Flexural strength</b>	app. 21 N/mm <sup>2</sup> app. 60 minutes
<b>Abrasion resistance (Amsler)</b>	1000 cycles 0.20 mm 2000 cycles 0.64 mm 3000 cycles 1.21 mm
<b>Fire rating (Euroclass)</b>	B <sub>n</sub> S1
<b>Impermeability (water)</b>	Impermeable, provided properly mixed and compressed

\*) For detailed information contact HIM.



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<b>Temperature limitations</b>
HIM TF9000 DECO 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.
<b>Surface preparation</b>
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.
<b>Limitations</b>
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.
<b>Primer</b>
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.
<b>Mixing</b>
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.
<b>Application</b>
When mixed, HIM TF9000 DECO should be applied immediately on to the wet HIM Primer 31. Alternatively HIM TF9000 DECO 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 DECO in the correct thickness and finish with a steel trowel. HIM TF9000 DECO can also be applied with a screedbox and finished with a helicopter or steel trowel.
<b>Material consumption (theoretical)</b>
2 kg/m <sup>2</sup> per mm of coat thickness
<b>Finish</b>
HIM TF9000 DECO is sealed with HIM Sealer DS Thixo, followed by a finish coat of HIM FC150, FC215 or FC240 Clear Mat or Satin.
<b>Safety precautions</b>
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.
<b>Tool cleaning</b>
HIM TF9000 DECO should be removed from tools and equipment with HIM Solvent 102 immediately after use.
<b>Shelf life</b>
HIM TF9000 DECO has a shelf life of 12 months if kept in a dry, cool store in the original, unopened packs.
<b>Disposal</b>
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.
<b>Pack size</b>
HIM TF9000 DECO is supplied in sets of 27,5 kg and 82,5 kg.
<b>Flash points</b>
HIM Primer 31 base > 100°C HIM Primer 31 hardener > 100°C HIM TF9000 DECO base > 100°C HIM TF9000 DECO hardener > 100°C HIM Sealer DS Thixo base > 100°C HIM Sealer DS Thixo hardener > 100°C HIM Solvent 102 32°C