



## HIM SL Flex

Flow applied, solvent-free, semi flexible 2 component floor topping based on modified epoxy resin

<b>Uses</b>
HIM SL Flex provides a seamless, decorative floor surface with a minimum coat thickness of 2 mm. The floor is impervious, resistant to a wide range of chemicals and easy to clean. The hardness of this floor provides a perfect balance between flexibility and durability and reduces sound transfer. Typical areas of use include public areas, hospitals, offices, museums, laboratories, showrooms, hotels, schools, prisons and warehouses.
<b>Product description</b>
HIM SL Flex consists of modified epoxy resins, inert fillers, curing agents and special additives. Himfloor SL Flex is supplied in 2 pre-weighed components and is ready for use. The result after curing is a 2-3 mm thick floor topping with a smooth, light reflective service.
<b>Advantages</b>
<ul style="list-style-type: none"> <li>▼ Hygienic – provides a dense, impervious seamless floor surface which is easily cleaned</li> <li>▼ Fast and easy application – minimises downtime</li> <li>▼ Solvent free – no odor or smell during application</li> <li>▼ Natural look and aesthetical appearance – available in a wide range of colors.</li> <li>▼ Less sensitive to environment conditions during application than PU-alternatives</li> <li>▼ Chemical resistance – good resistance to a wide range of chemicals</li> <li>▼ Noise reduction</li> <li>▼ Good UV-resistance</li> <li>▼ Durable – good abrasion resistance</li> </ul>
<b>Colors</b>
HIM SL Flex can be supplied in a wide range of RAL- and NCS-colors.
<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>• 1 coat of HIM Primer</li> <li>• 1 coat of HIM SL Flex</li> <li>• 1 or 2 coats of HIM FC230, HIM FC215 or HIM FC240</li> <li>• For a decorative aspect the floor may be scattered with flakes</li> </ul>

Technical data *)	HIM SL Flex
<b>Mixing ratio base + hardener</b>	21,55 kg + 3,45 kg
<b>Specific gravity (mixed)</b>	App. 1,64
<b>Volume of solids (mixed)</b>	100%
<b>Temperature resistance</b>	up to 80°C in air
<b>Pot life at 20°C</b>	40 minutes
<b>Curing at 20°C</b>	Foot traffic after 24 hours, vehicular traffic after 48 hours, fully cured after 7 days
<b>Material Consumption (Theor.)</b>	3,28 kg/m <sup>2</sup> for a coat thickness of 2 mm
<b>Shore D hardness</b>	App. 60
<b>Chemical resistance</b>	the cured product 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>	> 50 MPa
<b>Flexural strength</b>	> 30 MPa
<b>Tensile strength (ISO 37)</b>	> 14 MPa
<b>Elongation at break</b>	App. 45%
<b>E-modulus</b>	28 MPa
<b>Abrasion resistance (Taber) (H22/1000/1kg)</b>	240 mg
<b>Fire rating (Euroclass)</b>	C <sub>fl</sub> S <sub>1</sub>

\*) For detailed information contact HIM.



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

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<b>Temperature limitations</b>
HIM SL Flex shall not be applied at temperatures below 5°C, nor at a substrate temperature which is lower than the dew point 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. It may be necessary to level the floor before applying HIM SL Flex. For concrete light grit-blasting is recommended.
<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. 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 the HIM Primer on the prepared substrate. Mix both components of the primer till a homogeneous mixture is obtained. The Primer 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. Alternatively a scraping layer may be used.
<b>Mixing</b>
Proper mixing of the components is essential. Add the hardener to the base component and mix well for 3 minutes. It is recommended to pour the mix into a clean tin and mix again before applying the material. Unmixed material may result in soft spots and/or differences in color and gloss. Do not add solvent!
<b>Application</b>
When mixed, HIM SL Flex should be applied immediately on to the primed surface. Use a steel trowel or tooth trowel to obtain the desired coat thickness. We recommend spike rolling after 15-25 minutes (before 30 minutes!) to remove entrapped air.
<b>Material consumption (theoretical)</b>
3,28 kg/m <sup>2</sup> for a coat thickness of 2 mm
<b>Finish</b>
HIM SL Flex may be finished with 1 or 2 coats of a HIM finish coat, such as HIM FC230, HIM FC215 or HIM FC240.
<b>Joints</b>
Dilatation joints in the substrate must be repeated in HIM SL Flex.
<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 SL Flex should be removed from tools and equipment with HIM Solvent 102 immediately after use.
<b>Shelf life</b>
HIM SL Flex 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 SL Flex is supplied in sets of 25 kg. For large projects base and hardener may be supplied in 200 liter drums.
<b>Flash points</b>
HIM SL Flex base > 150°C HIM SL Flex hardener > 100°C For primer, finish and solvent see the relevant technical datasheet.