



industrial and decorative **flooring**

coatings for concrete and steel

Wearing courses for bridge decks and other constructions

HIM Products B.V. www.him.nl

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HIM FC450NP

Epoxy resin floor coating with a very high dry solid contents

Uses
HIM FC450NP provides a coloured floor finish, which is specifically recommended for area's with foot traffic, forklift trucks and heavy traffic. Areas of use : car parks, warehouses, production areas.
Product description
HIM FC450NP is a floor coating, based on epoxy, with a very high dry solid contents. HIM FC450NP can be used as a rollable coating, antislip coating scattered with sand 0,2-0,6 mm or as a sealer for sanded surfaces. It has excellent de-airing properties. HIM FC450NP is supplied in 2 components. After curing the product forms a durable coat, which has a good adhesion to all well prepared wooden, iron and concrete substrates. In case a solvent free version is required you should use HIM DC450N. Contact HIM for additional information.
Advantages
<ul style="list-style-type: none"> ▼ durable – good resistance to abrasion ▼ non-porous surface ▼ good adhesion ▼ easy to apply and to maintain ▼ anti-slip when sanded
Colors
HIM FC450NP can be supplied in a wide range of RAL-colours.
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
As a paint : 2 coats of HIM FC450NP As a sealcoat : HIM FC450NP is used to seal the sanded substrate with a steel trowel or a rubber float. As a car park coating : 2 coats of HIM FC450NP of which the first is scattered with fire dried sand.

Technical data	HIM FC450 NP
Mixing ratio base : hardener	20,9 kg : 4,9 kg
Specific gravity (mixed)	App. 1,57
Volume of solids (mixed)	96,5 % w/w 95,1 % v/v
Temperature resistance	up to 70°C in air
Pot life at 20°C	25 minutes
Curing at 20°C	Foot traffic after 24 hours, vehicular traffic after 48 hours, fully cured after 7 days
Material consumption (theor.)	Coating: 2 coats of app. 0,3 kg/m ² (depending on substrate) Antislip coating: 1 st coat of 0,3 kg/m ² applied by roller, scattered with sand 0,2-0,6 mm (gross 5 kg, nett 1,5 kg), 2 nd coat 0,5 kg/ m ² . Sealer: 0,5 kg/ m ² .
Chemical resistance	The cured coat of HIM FC450NP is resistant to a wide range of industrial and household chemicals. Consult HIM Products B.V. for detailed information.
Abrasion resistance (Taber CS10/1 kg/1000)	70 mg

**Gedetailleerde informatie kan worden verkregen bij HIM.*



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Temperature limitations
HIM FC450NP should not be applied at temperatures below 10°C, nor at a substrate temperature which is lower than the dew point temperature plus 3°C. The maximum application temperature is 35°C. The maximum relative humidity is 80%.
Surface preparation
It is essential to thoroughly prepare the floor surface in order to achieve a sound, clean and dry substrate, preferably by blasting. Substrates, contaminated by oil or grease, should be cleaned with suitable cleaning agents, followed by cleaning with lots of water. Allow the floor to dry for at least 48 hours.
Limitations
New cement based floors should be at least 28 days old and give a hygrometer reading not exceeding 5% (Protimeter). Vapour pressure may result in de-bonding of the finishing coat. It is essential to carry out the "rubber mat" test. Cracks or movement in the substrate, may re-appear in the finish coat. Existing dilations should be repeated in the finish coat.
Primer
No primer is required.
Mixing
The pigmented base component (A) of HIM FC450NP should be thoroughly homogenised before mixing it with the hardener component (B). Mix further for at least 3 minutes. The use of a heavy duty slow speed drill fitted with a mixing paddle is desirable.
Application
As a paint : HIM FC450NP should be applied to the prepared surface in 2 coats, using a roller, ensuring that the rolling takes place in straight lines and cross-wise. The second coat may be applied as soon as one can walk on the floor, but within 24 hours. The waiting time depends on the condition of substrate and surroundings. If the second coat is applied after more than 24 hours, the substrate should be prepared again. As a sealcoat : HIM FC450NP should be applied to the prepared substrate with a steel trowel or rubber squeegee. As a car park coating : The first coat of HIM FC450NP should be applied by roller or trowel and fully scattered with fire dried sand. After drying the excess of sand should be removed and a second coat of HIM FC450NP can be applied by steel trowel or rubber squeegee (if required after grinding the surface).
Safety precautions
Avoid contact with skin and eyes. Use only in well ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breath vapour. Wear suitable protective clothing, gloves and eye/face protection. If swallowed, seek medical advice immediately and show the container or label - do not induce vomiting. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Keep away from sources of ignition - do not smoke. For further information, refer to the Material Safety Data sheet.
Tool cleaning
HIM FC450NP can be removed from tools and equipment with HIM Solvent 102. The cured product can only be removed mechanically.
Shelf life
HIM FC450NP has a shelf life of 12 months if kept in a dry store in the original, unopened packs. Minimum storage temperature is 5°C. Ideal storage temperature is between 15°C and 25°C
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 FC450NP is supplied in sets of 25,8 kg
Flash points
HIM FC450N base > 100°C HIM FC450NP hardener 68°C HIM Solvent 102 32°C