



HIM DS3000

Decorative synthetic resin floor screed based on epoxy and coloured quartz sand

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| Uses |
| HIM DS3000 is a seamless decorative resin screed, used where decorative aspect and chemical and abrasion resistance to medium traffic are needed. Applications include restaurants, showrooms, schools, canteens, warehouses, pharmaceutical laboratories, food industry, industrial workshops, exhibition halls, and other medium traffic area. |
| Product description |
| HIM DS3000 is an epoxy resin screed, showing coloured quartz aggregates. It is obtained after a succession of different layers. The final aspect can be more or less textured, depending on the required anti-slip properties. A satin or mat finishing coat is recommended in all cases. The total thickness is 3-4 mm. |
| Advantages |
| <ul style="list-style-type: none"> • hygienic – provides a dense, impervious, seamless floor surface, which is easy to clean • durable – good abrasion resistance • decorative aspect – wide range of coloured quartz sands available • chemical resistant - good resistance to a wide range of chemicals • "texture-adjustable" surface – anti-slip • solvent-free – no smell during application |
| Flooring system *) |
| <ul style="list-style-type: none"> ▶ 1 coat HIM Primer 30 or HIM Primer 31, scattered with quartz sand (only for a porous substrate) ▶ 1 coat HIM RAG-N1 (clear or pigmented), filled and scattered with quartz sand ▶ Grinding ▶ 1 coat HIM RAG-N1 clear scattered with pigmented quartz sand ▶ Grinding ▶ 1 coat HIM Sealer DS ▶ 1 or 2 coats of a finishcoat, e.g. HIM FC215 or HIM FC240 |
| Maintenance |
| The service life of a floor can be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary brushing machine with a water diluted cleaning agent at temperatures up to 50°C. Refer to HIM for further advice. |
| Colors |
| HIM suggests to use HIM DS3000 in combination with a number of premixed coloured quartz aggregates, to be obtained from an approved supplier. However alternative suppliers and colours may be used, but this may effect durability, color, final aspect and performance. |

* Because of the potlife we recommend using HIM SL1000 during the summer at temperature > 20°C and during the winter period HIM RAG-N1. Please consult the product datasheet of these products.

| Technical data *) | HIM RAG-N1 | HIM Sealer DS |
|---------------------------------|-------------------|----------------------|
| Mix ratio | | |
| base : hardener by weight | 18,4 : 8,2 | 14,63 : 7,87 |
| base : hardener by volume | 16,2 : 8,2 | 13,1 : 7,6 |
| Specific gravity (mixed) | Ca. 1,14 | Ca. 1,09 |
| Volume of solids (mixed) | 100% | 100% |
| Pot life at 20°C | App. 20 minutes | App. 25 minutes |
| Curing at 20°C | 8 hours | 10 hours |

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| System | |
| Adhesion strength on concrete | > 4,5 MPa |
| Chemical resistance | The cured floor topping is resistant to petrol, oils and fats, detergents, some aliphatic hydrocarbons and diluted acids and alkalis. For further information on chemical resistance please contact HIM. |
| Fire rating (EN-13501) | B _f S ₁ |

*Gedetailleerde informatie kan worden verkregen bij HIM.



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| Temperature limitations |
| Do not apply the various materials at temperatures below 5°C nor at a substrate temperature which is lower than the dew point temperature plus 3°C. Maximum application temperature 35°C. Maximum relative humidity 80%. |
| Surface preparation |
| It is essential to thoroughly prepare the floor surface in order to achieve a sound, clean and dry substrate which is essential for good adhesion between flooring system and substrate. <i>Concrete substrates</i> : grit blasting, milling, or a combination of these techniques. The substrate needs to be levelled before applying the HIM DS3000 system. |
| Limitations |
| New concrete floors should be at least 28 days old and contain no more water than 5% by weight. Care should be taken that no rising damp can take place through the substrate, resulting in blisters and/or adhesion failure of the system. The rubber mat test can help to predict rising damp. 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. |
| Primer |
| When the prepared substrate is more absorbent than usual it may be necessary to apply one coat of HIM Primer 30 or HIM Primer 31. This coat has to be scattered with 0,4-0,8 mm quartz sand to achieve grip while applying the HIM RAG N1. Please consult product data sheet for technical data. |
| Mixing HIM RAG-N1 scratch layer mixes : |
| Proper mixing of all components is essential. Add 8,2 kg hardener to 18,4 kg base in a suitable mixing vessel and mix for 3-5 minutes. (for the first layer in the HIM DS3000 system a color pot may be added). Add 2 bags of 14,5 kg HIM SL3000 filler and mix during 3-5 minutes until a homogeneous mixture is obtained. 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. In order to prevent segregation of the product, mix the remaining product occasionally. Spread the mixture in small quantities on the surface in order to lengthen the potlife and to make application easier. |
| Mixing HIM Sealer DS |
| Proper mixing of all components is essential. Add hardener to base component in a suitable mixing vessel and mix for 3-5 minutes until a homogeneous mixture is obtained. 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. |
| Material consumption (theor.), at a coat thickness of app. 3 mm |
| The quality of the substrate has an impact on the material consumption of the first coat. The figures below should be considered as the minimum. All other material consumptions are based on grinding with grain size 16. If a primer is used, please consult relevant product data sheet. |
| First coat HIM RAG-N1 : 1,2 kg HIM RAG-N1 scratch layer mixture per m ² (clear or pigmented) (This mixture consists of 18,4 kg HIM RAG-N1 base, 8,2 kg HIM RAG-N1 hardener and 2 x 14,5 kg HIM SL3000 filler. This layer is excessively scattered with sand MI 0,4-0,9mm (approx. 2,5 kg/m ²) |
| Second coat HIM RAG-N1 : 1,2 kg HIM RAG-N1 scratch layer per m ² (clear) (This mixture consists of 18,4 kg HIM RAG-N1 base, 8,2 kg HIM RAG-N1 hardener and 2 x 14,5 kg HIM SL3000 filler. This layer is excessively scattered with coloured quartz sand (approx. 2,5 kg/m ²) |
| HIM Sealer DS : 0,5-0,75 kg, depending upon the tools used and the desired structure. In most cases one coat of HIM Sealer DS is sufficient, but when a second coat has to be applied the material consumption is approx. 0,15 kg/m ² . |
| Finishcoat (HIM FC215 or HIM FC240) 0,1-0,15 kg/m ² (consult product data sheets) |
| Application |
| Each layer of HIM RAG-N1 shall be spread over the surface immediately after mixing, using a steel float. The thickness will depend on the coarsest filler. Each scattering of quartz sand (natural for the first layer and coloured for the second layer) shall be carried out manually or with a suitable machine, so that the sand falls down vertically and well distributed on the resin layer until the resin stops bleeding. Each sanded dry layer shall be grinded and vacuum-cleaned. Please note that the potlife of the RAG-N1 mixture is short. It is essential to apply the mixture immediately after mixing and starts scattering as soon as it is evenly divided on the substrate. |
| Pot life at 20°C |
| HIM RAG-N1: app. 20 minutes HIM Sealer DS: app. 25 minutes |
| Curing at 20°C |
| HIM RAG-N1: 8 hours HIM Sealer DS: Foot traffic after 24 hours, light traffic after 48 hours, fully cured after 7 days. |



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| Grinding |
| After curing of the layers the excess quartz sand is removed. Grind the surface with a grinding machine with a diameter of 500 mm and a sanding disc with the required grain size. The grinded substrate has to be vacuum-cleaned with industrial vacuum-cleaners with sufficient power. |
| Sealer and finishcoat |
| HIM Sealer DS is applied with a steel float or rubber trowel, depending upon the desired structure. The finishcoat HIM FC215 or HIM FC240 is applied with a roller to protect the flooring system against UV radiation. |
| Tool Cleaning |
| Clean tools and equipment with HIM Solvent 102 immediately after use. |
| Shelf life |
| All components used in the HIM DS3000 system have a shelf life of 12 months if kept in a dry, cool store in the original, unopened packs. |
| 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. |
| Pack size |
| HIM RAG-N1 is available in sets of 26,6 kg and HIM Sealer DS is available in sets of 22,5 kg. Voor large areas the base and hardener components may be supplied in barrels. |
| Flash points |
| HIM RAG-N1 base > 100°C HIM RAG-N1 hardener > 100°C HIM Sealer DS base > 100°C HIM Sealer DS hardener > 100°C HIM Solvent 102 32°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. |