

Sikafloor[®]-Diamondhard

Concrete surface hardener and sealer

Construction

Description	Sikafloor-Diamondhard is a one component surface hardener and concrete sealer based on silicate polymers, which reacts chemically with the calcium hydroxide in the concrete to produce an improved, abrasion resistant, low sheen, hardened finish.
Uses	<ul style="list-style-type: none"> • Warehouse floors • Commercial floors • Manufacturing facilities • Garages and basements • Interior and exterior substrates
Advantages	<ul style="list-style-type: none"> • Fast penetration and reaction time • Can act as a water barrier in up to 2 hours • Improved chemical and abrasion resistance • Fast and easy to apply • Can be applied to fresh, new and existing concrete • Low sheen
Storage and Shelf Life	Stored in original sealed containers in dry, frost free conditions within the temperature range of +5°C to +30°C, this product will keep for a minimum of two (2) years.
Instructions for Use	
Mixing	Sikafloor-Diamondhard requires no pre-mixing and should be used direct from the container.
Surface Preparation	<ul style="list-style-type: none"> • All substrates must be sound, dry and free from oil, grease, curing compounds impregnations, wax, coatings and loose material. • For best results concrete floors should be treated at least 7 days after concrete is placed.
Application	<ul style="list-style-type: none"> • To ensure maximum penetration, scrub material into the surface with a stiff-bristle broom or an industrial floor-scrubbing machine for a minimum of 30 minutes, and until product begins to gel or becomes slippery. • Wet material lightly with water spray and rework it into the surface for another 10 to 20 minutes. After this process, rinse the floor and remove any excess material with a squeegee and wet vacuum. • On porous rough-textured or broom finished surfaces a second application may be required. • The second application can be installed 2-4 hours following the first one and is recommended to ensure maximum densification and protection. • Floors are available for use and vehicle traffic 4-6 hours after the removal of excess material.
Cleaning	Clean all tools with warm soapy water immediately after use. Do not allow Sikafloor-Diamondhard to dry as it can only be removed mechanically.

Technical and Physical Data

Form	Colourless odourless liquid
Density (at 20°C)	1.17 kg/l
Solids Content	Approx. 20%
Reaction Time	Tack free 2 to 4 hours Drying time 4 to 6 hours (trafficable)
Application Rate	5 - 7 m ² /litre (depending on the porosity of the substrate)
Application Temperature (ambient and substrate)	Minimum substrate temperature: +8°C Maximum substrate temperature: +30°C Maximum relative humidity: ~80%
Packaging and Sizes	Sikafloor-Diamondhard is available in 20 litre pails and 205 litre non-returnable drums.

Important Notes

- Not suitable for natural stone.
- Insufficient drying of the concrete will prevent full penetration of Sikafloor-Diamondhard, reducing its effectiveness.
- Sikafloor-Diamondhard is not a curing compound.
- Do not apply over areas previously treated with membrane forming sealers unless these sealers have been completely removed.
- Sikafloor-Diamondhard may cause the concrete colour to darken initially after placement. However, after curing and drying and it will begin to appear normal again.
- Sikafloor-Diamondhard cannot be expected to make bad disintegrating concrete good. The product will not effectively work on lightweight, extremely porous or worn concrete.

Handling Precautions

- Avoid contact with skin and eyes. Avoid contact with foodstuff and utensils. Wear protective clothing, gloves, goggles etc. In the event of contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention immediately.
- For further information, refer to the Sika Material Safety Data Sheet, which is available on request.
- If in doubt always follow the directions given on the pack or label.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

