

PRODUCT DATA SHEET

Sikafloor®-20 CureHard LI MY

Lithium silicate liquid hardener and densifier

DESCRIPTION

Sikafloor®-20 CureHard LI MY is a water-based lithium silicate blend for hardening and densifying of fresh and hardened power-trowelled or polished concrete surfaces. It is less prone to the formation of efflorescence in cases of over dosage compared to similar products based on sodium silicate. Sikafloor®-20 CureHard LI MY improves surface performance of the floor and resists the effects of wear and tear of traffic. It penetrates the concrete surface and starts a chemical reaction and subsequent crystallization of the reactive products which result in filling of the concrete surface pores.

USES

Sikafloor®-20 CureHard LI MY may only be used by experienced professionals.

Uses of Sikafloor®-20 CureHard LI MY:

- Horizontal old and new concrete surfaces, where a hard surface with light to moderate abrasion resistance is required, eg. warehouses, industrial buildings, storage areas, retail areas, car park decks, service facilities, hangars etc.
- Interior or exterior applications
- Dust-proofing of horizontal concrete surfaces, including prefabricated concrete element.

PRODUCT INFORMATION

Composition	Lithium silicate
Packaging	20 kg container
Appearance / Colour	Clear liquid
Shelf Life	12 months from date of production
Storage Conditions	The products must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C.

Density	~1.14 kg/L		
Solid content by weight	~20 %		
Abrasion Resistance	20 – 60 % improvement when compared to untreated sample (mortar mix, cement:sand = 1: 1, w/c 0.50) (ASTM D4060) (H22/1000/500)		
Consumption	2 coats x 0.20 L/m ² on power-trowelled concrete. This consumption may vary and does not take into consideration for any additional material required due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply Sikafloor®-20 CureHard LI MY to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.		
Ambient Air Temperature	+10 °C min. / +40 °C max.		
Relative Air Humidity	30 % min. / 100 % max.		
Substrate Temperature	+10 °C min.		
Substrate Moisture Content	May be applied on fresh concrete after power-trowelling, on matt dry concrete surfaces. Sikafloor®-20 CureHard LI MY can also be applied on fully cured and set concrete with matt dry surface, no standing water or puddles.		
Waiting Time / Overcoating	Subsequent coats can be applied after the previous coat has dried, normally ~1 to 1.5 hours after application of the previous coat. <small>Times are approximate and will be affected by changing ambient condition particularly temperature and relative humidity.</small>		
Applied Product Ready for Use	Temperature	Fully Serviceable	Full sealing and hardening effect
	+30 °C	~2 hours	~7 days
<small>Note: Times are approximate and will be affected by changing ambient and substrate conditions.</small>			
Drying Time	The surface is touch-dry after ~1.5 hours at +30 °C. Maximum sealing and hardening effect is achieved after 7 days.		

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Sikafloor®-20 CureHard LI MY must be removed mechanically (from light to heavy shotblasting depending on the depth of penetration) prior to the application of a coating system.
- Sikafloor®-20 CureHard LI MY is alkaline and can react with glass and aluminium. These surfaces, including its surrounding areas and adjacent surfaces (eg. polished surfaces) should be adequately masked and protected from overspray and spills. Immediately wash overspray and spills with clean water to avoid etching of the surfaces.
- The performance enhancement of the substrate can vary greatly depending on the age, cement content, humidity, porosity and penetration of Sikafloor®-20 CureHard LI MY into the substrate.

- Sikafloor®-20 CureHard LI MY will increase the abrasion resistance compared to untreated concrete of the same type, however Sikafloor®-20 CureHard LI MY cannot compensate performance of a poor substrate made with low cement content. It is not recommended to apply Sikafloor®-20 CureHard LI MY on substrates which are lightweight, extremely porous or have worn (aggregates exposed) surfaces.
- Sikafloor®-20 CureHard LI MY will not hide staining or excessive wear.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

IMPORTANT NOTE

- Do not apply Sikafloor®-20 CureHard LI MY on substrates previously treated with curing agents, membrane forming sealers or asphalt until these layers have been completely removed.
- Apply Sikafloor®-20 CureHard LI MY on a small area of each surface to confirm suitability, coverage rate and desired results before commencing the full application. Test with the same equipment, surface preparation and application procedures as for the actual application.
- Apply Sikafloor®-20 CureHard LI MY only on dry substrates free of water puddles and dampness.

Hardened/Old Concrete

Surfaces must be sound, open textured, clean, free from laitance, surface water, oils, grease, coatings, all loosely adhering particles and other surface contaminants. Any residue of curing agents must be completely removed from all surfaces before application of Sikafloor®-20 CureHard LI MY. If in doubt, apply a test area first.

Fresh Concrete

Allow the fresh concrete to cure for a minimum of 7 days or until the cement has sufficiently hydrated prior to treatment with Sikafloor®-20 CureHard LI MY. After the curing period has elapsed, treat the fresh concrete surfaces as described for Hardened/Old Concrete.

Note: It is possible to apply Sikafloor®-20 CureHard LI MY on fresh concrete surfaces that are 3 days old. However, on-site tests must be conducted to determine and confirm suitability of use. For best results with fresh concrete surfaces, wait for 7 days after placement of concrete.

SUBSTRATE PREPARATION

Hardened/Old concrete

The substrate must be prepared by suitable cleaning method such as high-pressure water cleaning or by ride-on cleaning machines. Allow the substrate to dry. All dust, dirt, loose and friable material must be completely removed from all surfaces before application of Sikafloor®-20 CureHard LI MY, preferably by brush and vacuum.

To remove dirt, stains and scuffs, buffing is preferred.

Fresh concrete

The concrete must be prepared by suitable power or manual floating/tamping techniques. Prior to application of Sikafloor®-20 CureHard LI MY, all dust, dirt, loose and friable material must be completely removed from all surfaces, preferably by brush and vacuum.

APPLICATION

IMPORTANT NOTE

- Do not mix Sikafloor®-20 CureHard LI MY with other formulations of Sika® or other curing membranes, release agents or floor hardeners.

- Do not use sprayers which has been previously used to spray silicones, release agents or other liquid materials.
- Ensure spraying equipment is cleaned thoroughly before use and residues of previous materials are completely removed.
- Maintain a continuous film. When applying Sikafloor®-20 CureHard LI MY, do not leave dry spots in order to achieve homogenous performance. Touch up where necessary.

Hardened/Old Concrete

1. Using a low pressure sprayer, apply a single layer sufficient to wet the floor surface without producing puddles. Avoid over application.
2. Use a clean microfiber pad to spread Sikafloor®-20 CureHard LI MY evenly and ensure uniform wetting on the floor surface. Note: Avoid spreading once drying begins.
3. (Optional) Alternatively, use a cleaning machine with soft pads to spread and apply Sikafloor®-20 CureHard LI MY.
4. Scrubbing is not necessary.
5. Reapply Sikafloor®-20 CureHard LI MY and keep the surface from drying for at least 30 minutes. It is important to maintain the densifier in-place, in a damp condition so that it can penetrate the concrete surface properly.
6. Once the required treatment is completed, immediately remove excess material (dried powder residue) using a stiff broom, power sweeper, floor scrubbing machine and vacuum. Clean water can be used to keep the excess material from drying during the removal process. If the excess material is not removed immediately, it will leave unsightly deposits on the concrete surface.
7. For strongly absorbent floors, an extra coat may be required.
8. Allow the concrete treated with Sikafloor®-20 CureHard LI MY to dry thoroughly.
9. To enhance shine, burnish or polish the concrete surface by using burnishing equipment with appropriate polishing pad. This is a dry operation.

Fresh Concrete

1. Using a low pressure sprayer, apply a single layer sufficient to wet the floor surface without producing puddles. Avoid over application.
2. Use a clean microfiber pad to spread Sikafloor®-20 CureHard LI MY evenly and ensure uniform wetting on the floor surface. Note: Avoid spreading once drying begins.
3. Scrubbing is not necessary.
4. Reapply Sikafloor®-20 CureHard LI MY and keep the surface from drying for at least 30 minutes. It is important to maintain the densifier in-place, in a damp condition so that it can penetrate the concrete surface properly.
5. Once the required treatment is completed, allow the surface to dry, and immediately initiate the specified curing procedure, if required.
6. When curing has completed, rinse and scrub the floor with clean water and cleaning pads or brushes attached to a mechanical floor scrubber to remove debris, excess materials and residues. Remove the rinse water with wet-vacuum before it dries.

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-20 CureHard LI MY must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc, using suitable detergents and waxes.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika 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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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