

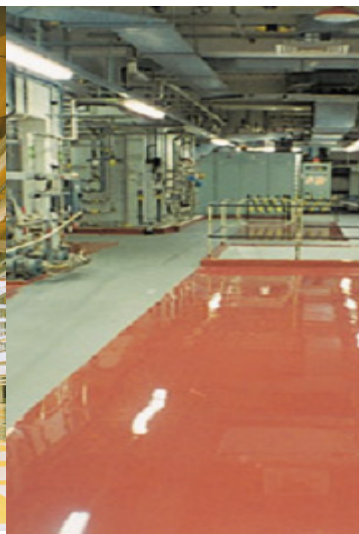


# Application Methodology

Liquid floor hardener

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## Substrate Preparation

### Diamond grinding machine



High spots must be removed by diamond grinding machine. All dust, loose and friable material must be completely removed by vacuum cleaner from all surfaces before application of the product,

### Repair pot hole. Cracks. Surface defects:



Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Cut all crack by concrete cutter & repair the substrate by Sikadur 31

### Product description:

**Sikafloor®-CureHard-24** is a one part, clear liquid based on inorganic silicate to cure, harden and seal fresh or hardened concrete

**Appearance / Colours:** Clear liquid

**Packaging:** 10kg container

**Storage Conditions / Shelf-Life:** 12 months from date of production if stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +35°C

### System Structure

**Substrate:** Cured concrete slab (See Substrate Quality below)

**Liquid hardener:** Manual or spray application of **Sikafloor®-CureHard-24**

**Consumption:** 0.15-0.25kg/sqm

**Substrate Quality**

Surfaces must be sound, open textured, clean, free from frost, laitance, surface water, oils, grease, coatings, all loosely adhering particles and other surface contaminants.

If in doubt apply a test area first.

For best results, concrete floors must be treated with Sikafloor®-CureHard-24 at least 7 - 14 days after their placement or after the cement has had sufficient time to hydrate.

**Application Method / Tools**

**Fresh Concrete:** Apply in a continuous film using a high volume low pressure spray unit as soon as the surface is firm enough to walk on and in sufficient quantity to keep the surface damp for at least 30 minutes.

After ~ 30 to 45 minutes, the material begins to gel and becomes slippery. Wet the material lightly with a water spray to reduce slipperiness and rework into the surface for 10 - 20 minutes with a soft bristle broom or floor-scrubbing machine. After about 20 minutes, the material will return to a gel. Rinse the floor and remove any excess material using a squeegee, wet vacuum or mop.

**Hardened Concrete:** Apply in a continuous film using a high volume low pressure spray unit.

To ensure maximum penetration, scrub material into the surface with a soft bristle broom or floor-scrubbing machine (min. 30 minutes), until material begins to gel and become slippery. Wet the material lightly with a water spray and rework it into the surface for another 10 - 20 minutes. After this process, rinse the floor and remove any excess material using a squeegee, wet vacuum or mop.

On porous, rough-textured or broom-finished surfaces, a second coat may be required.

**Waiting Time / Over coating:**

Temperature	Time
+5°C	~ 4 hours
+10°C	~ 3.5 hours
+20°C	~ 3 hours
+25°C	~ 2 hours

**Application Steps:**



### Notes on Application / Limitations

- In hot weather (above +25°C) store Sikafloor®-CureHard-24 in a cool place prior to use.
- In low temperatures (below +10°C) the product may thicken and be difficult to spray.
- Do not use sprayers, which have been used to spray silicones or release agents.
- Do not mix differing formulations of Sika® or other curing membranes.
- Ensure spraying equipment is cleaned thoroughly before use and residues of previous membranes are removed.
- Sikafloor®-CureHard-24 must be removed mechanically prior to the application of a coating system.
- Sikafloor®-CureHard-24 will increase abrasion resistance compared to untreated concrete of the same type.
- Immediately wash over-spray from glass, aluminum or highly polished surfaces with water to avoid etching of surfaces.
- Do not use on substrates treated previously with curing agents, membrane forming sealers or asphalt until these layers have been removed completely.
- Only use as curing compound for unregulated specific application.
- Gelification time may be increased at low temperatures (below +10°C), high humidity (from 80% to 100%) or wind free conditions.
- In hot weather conditions (above +25°C), gelification may occur before material has penetrated sufficiently. In such case, apply additional Sikafloor®-CureHard-24 to keep the surface wet for the recommended 30 minutes.
- When applying, leave no dry spots in order to have homogenous performance. Touch up where necessary.
- For both old and new concrete, thoroughly wash and remove off residue or excess material. This is important as it is difficult to do so if allowed to dry and may result in unsightly white stains. This residue solution is non toxic and can be emptied into a sanitary sewer.
- Performance enhancement of the substrates will vary greatly depending on the age, cement content, humidity content, porosity and penetration of the product into the substrate.
- Sikafloor®-CureHard-24 will not compensate for poor substrates with low cement content. It is not intended for substrates which are lightweight or extremely porous or have worn (aggregate exposed) surfaces.
- Sikafloor®-CureHard-24 will not hide serious staining or excessive wear.

#### Applied Product ready for use:

Substrate temperature	+10°C	+20°C	+30°C
Fully serviceable	24 hours	18 hours	10 hours