HEXACRETE
EPOXY | POLYASPARTIC | MMA FLOORING

EPOXY

PRODUCT TECHNICAL USER MANUAL

DESCRIPTION

SL-EP Scratchcoat is a two-component, solvent-free, pigmented, self-leveling epoxy flooring system with excellent mechanical properties. Hexacrete SL-EP Scratchcoat can be applied beneath any Hexacrete flooring system.

It is suitable as a scratch coat for warehouses, logistics areas, garages, workshops, loading docks, and public areas such as laboratories, offices, corridors, canteens, schools, hospitals, showrooms, museums, and city halls, etc.

PROPERTIES

Very good mechanical resistance
Liquid proof
Solvent-free

Viscosity[1] (mPa.s)	2000 – 2500
Shore Hardness[2]	> D80
Potlife @ 20°C (min)	~ 20
Electrical Conductivity	insulating
Density[3] (g/cm³)	1,64
Density + 25% GEBA[3] (g/cm³)	1,73
Compression strength[4] (N/mm²)	> 65
Flexural strength[4] (N/mm²)	> 35
Adhesive strength[5] (N/mm²) (Concrete fracture)	> 1.5

[1] = Brookfield, LV4, 30 RPM, @ 23°C
[2] = DIN 53505, 28 days / +23°C / 50% R.H
[3] = ISO 2811-1, +23°C / 50% R.H
[4] = ISO EN 196-1 / +23°C / 50% R.H
[5] = EN 4624, 14 days / +23°C / 50% R.H

FORM

Component A: Liquid, colored
Component B: Liquid, clear and transparent

Almost all RAL, NCS, and SIKKENS colors are available. Other colors are available upon request.

Discoloration and color deviation may occur when exposed to direct sunlight. This will not affect the functionality or performance of the installed floor.

Application at different stages and combining different batch numbers within one project may result in slight color differences. To avoid this:

Order all materials for your project at the same time.

PACKAGING

Component A: 21.5 kg bucket | Component B: 3.5 kg bucket | Component A+B: 25 kg set

SHELF LIFE/STORAGE

Up to 12 months from the production date if kept in the original, sealed, unopened, and undamaged packaging, and stored in a dry place between +5°C and +30°C.

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MIXING

Mixing Ratio: Component A : Component B = 86 : 14 (parts by weight)

Add the complete contents of Component B to Component A and mix continuously for 2 minutes until a homogeneous mixture is achieved.

Then pour the mixture into a clean bucket and mix again for 1 minute. This will prevent unmixed material from remaining on the edges and/or bottom of the bucket.

To minimize air inclusions, do not mix too quickly.
Air that is not mixed in does not need to escape during curing.

Mixing is preferably done with a powerful mixer, such as the Hexacrete WK 90 mixer, at a low speed (300–400 RPM).

It is also possible to fill the SL-EP Scratchcoat with special GEBA WEISS sand, available from Hexacrete. A mixing ratio of up to 75% SL-EP Scratchcoat and 25% GEBA WEISS sand is possible without disturbing the flow and leveling properties. This special filler creates the possibility of using Hexacrete's "SIMO."

Wait at least 1 hour (sometimes longer, depending on the ambient temperature) until the SL-EP Scratchcoat has started to cure slightly. Then the "SIMO" can be broadcast to float on the surface.

To check the degree of curing, wear spiked shoes and walk onto the freshly applied floor. These very fine white and black stones are incredibly hard and resilient and will significantly increase the wear resistance of the self-leveling epoxy. This makes it very suitable for industrial flooring.

Hexacrete's "SIMO" works only if it remains on the surface of the SL-EP 2K. If GEBA WEISS sand is used and/or the material is broadcast too soon, it will sink into the self-leveling layer and become less effective.

SYSTEM CONSTRUCTION

Primer for Porous Substrates: On porous surfaces, use Hexacrete "Primer BHH," which penetrates the substrate and ensures a strong mechanical bond.

Primer for Non-Porous Substrates: Hexecrete Primer GW is used on non-absorbent substrates. This primer provides very good physical adhesion, especially on ceramic tiles.

Scratch Coat: For additional leveling and/or to seal the substrate, an extra scratch coat of Hexecrete SL-EP Scratchcoat may be applied.

A scratch coat is preferably applied at 0.5 to 1 kg per square meter.

WEARING COURSE SL-EP SCRATCHCOAT

Topcoat: The SL-EP Scratchcoat, which may yellow over time, can be covered with a UV-stable, aliphatic topcoat such as Hexacrete Coating PU MG Matt or Satin Gloss. These topcoats contain UV absorbers that significantly slow down yellowing.

Extra Topcoat: To increase wear resistance and UV protection, a second layer of Coating PU MG can be applied.

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FOR ALL SELF-LEVELING SYSTEMS, THE FOLLOWING APPLIES:

After applying the primer and optional scratch coat, the surface must be sealed before the self-leveling layer is applied. This is done to prevent blisters and holes in the finishing coat.

CONSUMPTION

Screed Floor System	Product	Consumption
Primer	Primer BHH Primer GW	125 – 250 g/m² 100 – 150 g/m²
Scratch Coat (optional)	SL-EP Scratchcoat	500 – 1000 g/m²
Wearing Course 1 mm layer thickness 2 mm layer thickness 3 mm layer thickness	SL-EP Scratchcoat	 ~ 1640 g/m² ~ 3280 g/m² ~ 4920 g/m²
Wearing Course 1 mm layer thickness 2 mm layer thickness 3 mm layer thickness	75% SL-EP Scratchcoat + 25% Geba Sand	 ~ 1730 g/m² ~ 3460 g/m² ~ 5190 g/m²
Topcoat (optional)	Hexacrete PU MG	150 – 175 g/m²
Extra Topcoat (optional)	Hexacrete PU MG	150 – 175 g/m²

The Hexacrete SL-EP is part of the following systems:

Protect-Line Level

Protect-Line Deck

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SUBSTRATE PREPARATION

The substrate must be sound and sufficiently compression-resistant (at least 25 N/mm²), with a minimum adhesive strength of 1.5 N/mm².

The substrate must be clean, dry, and free of dirt, oil, grease, and other contaminants.

Concrete substrates must be mechanically prepared using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open-textured surface.

Weak concrete and loose cementitious leveling must be removed. Surface damage such as blowholes and voids must be repaired with Hexacrete Epoxy Gel and then primed again. Never use polyester putty.

All dust, loose, and friable material must be completely removed from all surfaces before the product is applied, preferably using a brush and/or industrial vacuum cleaner.

The concrete or screed substrate must be primed.

Uneven substrates must be leveled to achieve an even surface. Use Hexacrete Cementitious SL Underlayment or Hexacrete Cementitious SL Constructive.

Please refer to the respective Technical Data Sheets for more information.

If the surface is older than 48 hours, always perform a preliminary adhesion test.

APPLICATION CONDITIONS

Surface temperature:	Minimum 10°C, maximum +25°C
Ambient temperature:	Minimum 10°C, maximum +25°C
Surface moisture content:	< 4% moisture To be tested using a carbide measurement method.
Relative air humidity:	Maximum 75% R.H.
Dew point:	Beware of condensation.

The temperature of the subfloor and non-hardened material must be at least 3°C higher than the dew point to prevent the risk of condensation, efflorescence, or mold formation on the floor finish.

APPLICATION

Processing time @ 20°C	20 minutes
Touch dry @ 20°C	12 hours
Walkable @ 20°C	24 hours

Check the moisture content of the surface, relative humidity, and dew point before application.

Pour SL-EP Scratchcoat and spread evenly using a flat or notched trowel.
Preferably pour the complete contents of the bucket in one go to avoid a rapid reaction of material remaining inside the bucket.

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REMARKS

Do not use SL-EP Scratchcoat on surfaces with rising damp.

After application, Hexacrete SL-EP Scratchcoat must be protected from damp, condensation, and water for at least 24 hours (+20 °C).

Uneven or dirt-covered substrates should not be treated with thin coatings. Both the substrate and adjacent areas must always be thoroughly prepared and cleaned prior to application.

Incorrect assessment and treatment of cracks may lead to reduced service life and recurrent cracking.

Immediately process all mixed material; otherwise, at the end of the processing time, the flow and de-aeration will decrease.

Use materials with the same batch numbers to ensure an exact and even color match.

If heating is required, do not use gas, oil, paraffin, or other fossil-fuel heaters, as they produce large quantities of both CO_2 and water vapor, which may adversely affect the finish. Only use electrically powered warm air blower systems when heating is needed. Switch off underfloor heating during application and for the first 48 hours; after this period, you may increase the temperature gradually.

Underfloor heating or high ambient temperatures, combined with highly concentrated loads, can, in certain circumstances, result in imprints in the resin.

CLEANING / MAINTENANCE

To maintain the appearance of the floor after application, the floor system must be kept clean and all spillages removed immediately.

The floor must be cleaned regularly using a rotary brush, mechanical scrubbers, scrubber dryer, high-pressure washer, wash-and-vacuum techniques, etc. Always use suitable detergents and waxes.

Clean the floor with tepid water. Never use hot water (warmer than 40 °C).

VALUE BASE

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH AND SAFETY INFORMATION

For information and advice on how to safely handle, store, and dispose of chemical products, users should refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological, and other safety related data.

LEGAL NOTES

This information, and in particular the recommendations related to the application and end use of Hexacrete products, is provided in good faith based on our current knowledge and experience.

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The information contained herein applies to products that are correctly stored, handled, and applied under normal conditions in accordance with Hexacrete's recommendations.

In practice, differences in materials, substrates, and actual on-site conditions mean that no warranty of merchantability or fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred from this information, from any written recommendations, or from any other advice offered.

The user of the products must test the product's suitability for the intended application and purpose. Hexacrete 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 technical data sheet for the product concerned, copies of which will be supplied upon request.

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