

PRODUCT DATA SHEET

SikaLatex® Self Levelling

HIGH PERFORMANCE, FLOOR-LEVELLING, LATEX-MODIFIED CEMENTITIOUS SCREED

PRODUCT DESCRIPTION

SikaLatex® Self Levelling is a ready to use latex-modified smoothing and levelling compound for advanced flexibility and resilience. It is suitable for smoothing and levelling uneven rigid internal floors prior to applying final wearing coverings.

USES

Levelling/smoothing:

- Concrete
- Sand/cement screeds (not anhydrite)
- Quarry tiles, terrazzo, ceramic tiles
- Underfloor heating applications beneath heating cables/pipes or on top of heated screeds

CHARACTERISTICS / ADVANTAGES

- Self-smoothing and highly fluid.
- Easy to place by pump or manual application.
- SikaLatex® Self Levelling is ready for use.
- Low shrinkage.
- Maintains good workability and joint healing throughout its pot life.
- Fast setting and drying.
- Good surface appearance and hardness.
- Excellent freeze-thaw salt resistance.
- Protein and formaldehyde free.
- Underfloor heating applications beneath heating cables/pipes or on top of heated screeds.

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|------------------------------|-------------------------------------|
| Floor Usage | Foot Traffic |
| Time for Foot Traffic | 2-4 hours at 20°C |
| Time for Coverings | 18-20 hours |
| Application Thickness | Feathered edge to 6mm (25mm filled) |
| Water Addition | 5 litres per 25kg bag |

APPROVALS / STANDARDS

EN13813 class CT-C30-F6

PRODUCT INFORMATION

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|----------------------------|---|
| Packaging | 25kg bag |
| Appearance / Colour | Grey powder |
| Shelf Life | 9 months from date of production if stored properly in original, unopened and undamaged sealed packaging. |
| Storage Conditions | Dry conditions at temperatures between +5°C and +35°C. |
| Density | 2.09 kg/l ± 0.03 (fresh mortar) |

TECHNICAL INFORMATION

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|-----------------------------|--|
| Abrasion Resistance | Taber Abrasion Resistance 16900 (ASTM D4060) |
| Compressive Strength | 30 N/mm ² (MPa) |

SYSTEM INFORMATION

System Structure

Priming

The one part acrylic primer Sika® -Level-01 Primer is recommended for a pore-free surface with very good surface adhesion. Please refer to the relevant PDS for the recommended application details etc. SikaBond® PVA+ (1 part PVA to 4 parts clean water) may also be used.

Levelling

Apply to the required thickness up to 6mm.

APPLICATION INFORMATION

Ambient Air Temperature +8°C min. / +35°C max.

Relative Air Humidity < 75% max

Substrate Temperature +8°C min. / +35°C max

Pot Life +23°C / 50% r.h - 15 - 20 minutes

Waiting Time / Overcoating

Suitable for overcoating with impermeable or moisture sensitive coatings after :

Layer thickness up to 10mm ~ 24h

Layer thickness up to 25mm ~ 48h

Times are approximate and at +23°C and 50% r.h. and thus will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity.

When overcoating SikaLatex® Self Levelling always ensure the moisture content has achieved the required value for the coating product, as the waiting time will vary with the application thickness and ambient humidity (refer to the topcoat product data sheet).

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Normal Absorbent Concrete/Screed

- These substrates do not normally require priming. Damp down floor with clean water without leaving puddles and allow to surface dry. If water is absorbed immediately into substrate, treat as porous surface.

Porous Concrete/Screed

- Seal surface with SikaBond® PVA+ (1 part PVA to 4 parts clean water) ensuring surface is well coated, then allow to dry.
- For highly porous substrates it may be necessary to apply more than one coat to prevent pinholes and cracking/debonding of SikaLatex® Self Levelling.

Non Porous/Dense Substrates (quarry/ceramic tiles, terrazzo and smooth concrete etc)

- Mechanically roughen surfaces by grinding or scarifying to provide a mechanical key.
- Alternatively, apply a bonding coat of undiluted SikaBond® PVA+ and allow to become tacky before applying levelling compound.

MIXING

Mix thoroughly for a minimum of 3 minutes with an electric stirrer (< 500 rpm).

Unfilled (up to 6mm thick)

Mix SikaLatex® Self Levelling with clean water only.

Slowly add 5 parts powder to 1 part water (25kg powder will require 5 litres / 5kg of water). Mix in a suitable clean container using a mechanical mixer with a spiral mixing paddle at slow speed until fully mixed and a smooth consistency achieved.

Occasionally during hot weather the product may require remixing during the 15 - 20 minute pot life to re-activate the self-levelling characteristics. DO NOT add extra water. Discard any unused material after 20 minutes from initial mixing.

Filled (up to 25mm thick)

Mix SikaLatex® Self Levelling at a 1:1 ratio with sharp sand then with clean water only. Slowly add 10 parts powder to 1 part water (25kg powder plus 25kg sharp sand will require 5 litres / 5kg of water). Mix in a suitable clean container using a mechanical mixer with a spiral mixing paddle at slow speed until fully mixed and a smooth consistency achieved.

Occasionally during hot weather the product may require remixing during the 15 - 20 minute pot life to re-activate the self-levelling characteristics. DO NOT add extra water. Discard any unused material after 20 minutes from initial mixing.

APPLICATION

- SikaLatex® Self Levelling can be applied from a maximum thickness of 6mm (25mm when filled) down to a featheredge.
- Pour the mixed product onto the floor and spread evenly with a steel trowel to form a thin, tight scrape

coat within working time.

- Immediately add further quantities of mixed product to give the desired thickness.
- Trowel marks should flow out of the product to leave a smooth finish (if not, trowel again when the surface is still damp but firm to the touch).
- If required use a spiked roller, within working time, in unfilled product to provide a more uniform surface appearance.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

LIMITATIONS

- SikaLatex® Self Levelling is not designed as a final wearing surface and must be covered with a floor covering.
- Not to be used on flexible or unstable substrates.
- Do not use over timber, vinyl coverings, insulation/building boards, anhydrite screeds etc.
- For substrate advice contact Sika Technical Department.
- Do not use on floors with rising damp.
- Do not use as a DPM.
- Porous substrates must be sealed to prevent pinholing and cracking.
- Never exceed water quantity stated.
- Do not add any other materials to the mix.
- Do not use externally.
- Do not use for embedding underfloor heating systems.
- Do not use directly over the top of underfloor heating system pipes or cables.

VALUE BASE

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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.

SIKA IRELAND LIMITED

Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @Sikalreland



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