

PRODUCT DATA SHEET

Sikafloor® K-L

LIQUID ADDITIVE FOR SEMI-DRY CEMENTITIOUS SCREEDS

PRODUCT DESCRIPTION

Sikafloor® K-L is a liquid additive for improving semi-dry cementitious screeds utilising advanced admixture technology. Sikafloor® K-L modified screeds can be batched on site or by volumetric mixers to ensure a high quality product for multiple applications. The screeds are capable of achieving high strengths with low shrinkage. The delivery is exact, as the volumetric mixer controls the quantity required.

The range consists of Sikafloor® K-L Standard and Sikafloor® K-L Super. Both are also available incorporating polypropylene fibres if required.

USES

The Sikafloor® K-L range may be laid bonded, unbonded or floating subject to the requirements of the project:

- All grades from low to high traffic areas
- Early strength compared to normal screeds
- Fast track construction
- Applications – Hospitals, warehouses, commercial buildings, manufacturing and office buildings

CHARACTERISTICS / ADVANTAGES

- High strength
- Early installation of finishes
- Excellent workability
- Resistant to construction traffic
- Low shrinkage
- Quality controlled
- No site mixing

PRODUCT INFORMATION

Packaging	20 litres
Appearance / Colour	Straw
Shelf Life	12 months from date of production if stored properly in undamaged containers.
Storage Conditions	Store in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.

TECHNICAL INFORMATION

Specific Advice

Mix Proportions:

Standard **Super**
1:4 & 3:1 Sand:Cement Sikafloor® K-L @ 0.5%

Max Aggregate Size: 10 mm

Application Temperatures: +5°C min, +25°C max (Substrate and ambient)

Application Thickness:

Screed thickness and tolerances should be in accordance with the recommendations and limitations of BS8204-1. The minimum applied thickness values below are a guide only:

Fully bonded 25 mm

Unbonded 50 mm

Floating 75 mm

Compressive Strengths:

Compressive strengths: **Standard** **Super**
28 days @ 20°C: 40 N/mm² 60 N/mm²

Working Time: 2 hours

Drying Times (20°C/55% RH):

General guide

3 mm/day up to 50 mm

	Standard	Super
Foot traffic	24 hours	18 hours
Lightly serviceable	2 days	1 day
Fully serviceable	3 days	2 days

All above values are approximate

APPLICATION INSTRUCTIONS

Concrete Substrate Preparation

Unbonded or floating screeds:

The base should be reasonably flat and smooth and swept clean prior to laying insulation, dpm or separating layers.

Fully bonded:

Concrete base - Suitably prepare base using mechanical or abrasive blast cleaning techniques such as scabbling, need gunning or grit blasting to produce an exposed aggregate finish.

Precast/Prestressed concrete units - Prepare substrate by grit blasting to produce an exposed aggregate finish.

Thoroughly clean surfaces to be bonded of dust, debris and other loosely adhering particles by industrial vacuum cleaner.

Mixing

Sikafloor® K-L is added directly to the mix or via volumetric trucks for quality control.

Application Instructions

The prepared substrate should be thoroughly soaked with clean water for several hours until uniformly saturated leaving no standing water.

Bonding slurry/coat:

For a bonded screed, use a SikaTop® 77 bond coat (mix design Ref A - refer to separate Technical Data Sheet) and work the material vigorously with a stiff brush onto pre-dampened substrate. Alternatively if pre-soaking is not possible use Sikadur 32 as a bonding slurry/coat applied to the clean prepared concrete substrate (refer to separate Technical Data Sheet).

Sikafloor® K-L:

The screed mix must be spread over the concrete base with a 10-20 mm surcharge, while any bonding slurry/coat used is still wet (within 15-20 minutes). Thoroughly consolidate mix until maximum compaction and correct level are achieved.

Good compaction can be readily achieved by using a hand-rammer or roller. Thicknesses in excess of 50-60 mm should be compacted in two separate layers.

The time delay between layers should be minimal, and the surface of the first should be lightly raked before placing the second layer to prevent the risk of delamination.

Finishing:

Sikafloor® K-L can be finished by wood floating followed by steel trowelling to achieve the required surface texture for subsequent floor finishes.

Prior to the application of final floor finishes, confirm Sikafloor® K-L has dried sufficiently to comply with the moisture content and RH requirements of the floor finish manufacturer.

Cleaning of Tools

Use water. Hardened material may have to be mechanically removed.

Notes on Application / Limitations

Curing

Correct curing procedures should be carried out immediately after application to ensure full cement hydration and to minimise cracking and curling.

Close cover the Sikafloor® K-L screed with polyethylene sheeting secured at the edges and leave in position for a minimum of 7 days. Alternatively use Sikafloor® ProSeal W liquid curing membrane. Sikafloor® ProSeal W should be removed by grit blasting prior to laying subsequent floor finishes.

- In cold weather Sikafloor® K-L must not be laid on freezing surfaces and, if there is a risk of frost after laying, should be protected with insulating quilts for 2-3 days.
- Do not use dehumidifiers to dry out screed.
- Reference should be made to the relevant British Standards for cementitious screed to ensure compliance with appropriate clauses
 - BS 8000 Part 9 - Workmanship
 - BS 8203 - Screeds for flexible flooring
 - BS 8204-1 - Screeds for rigid in-situ flooring
 - BS 5385 Part 3 - Screeds for rigid tiling
- Where underfloor heating is to be used, Sika Sure-flow anhydrite screed is recommended. For Sikafloor® K-L application, refer to the Sika Technical Department.

VALUE BASE

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.

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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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