




KÖSTER SL Premium

Technical Data Sheet SL 280 025

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Classification report K-2300/763/16-MPA BS: Classification of reaction to fire according to DIN EN 13501-1:2010-01

Fast hardening, self-levelling floor screed

	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 18 SL 280 EN 13813:2002 Cement screed for application in interiors
Reaction to Fire	A2 _{F1} -S1
Compressive strength	C30
Bending tensile strength	F7
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	AR 0,5
Tensile strength	B 2,0
Chemical resistance	NPD
Dangerous substances	NPD
Impact resistance	NPD

Features

KÖSTER SL Premium is a high quality, fast setting underlayment that hardens tension free and provides a smooth, level surface ready to receive subsequent flooring systems.

It hardens within hours to a smooth, strong, and multifunctional leveling layer. It may be applied onto a variety of substrates such as KÖSTER VAP I 2000 coatings, concrete, etc. KÖSTER SL Premium accepts all major floor coverings and is compatible with most adhesives. It is resistant to abrasion and wear. If the material is installed onto smooth, non-absorbent substrates such as KÖSTER VAP I 2000 coatings, the substrate must be primed with KÖSTER VAP I 06 Primer. KÖSTER SL Premium can be applied in layer thicknesses between 5 and 15 mm, can be feathered out to 2 mm, and installed in depressions up to 30 mm.

Technical Data

Bulk density (powder)	1.3 g/cm ³
Compressive strength (28 days)	approx. 45 N/mm ²
Bending tensile strength (28 days)	approx. 10 N/mm ²
Tensile strength (depending on substrate)	up to 4 N/mm ²
Application temperature	min. + 5 °C
Ideal application temperature	+ 15 °C
Pot life	20 minutes (+ 20 °C)
Resistant to foot traffic	after 3 – 4 hours*
Can be tiled over	after 4 – 6 hours*
Trafficable (soft tires)	after 24 hours*
Application of Parquet, carpet	after 24 – 72 hours*
Application of synthetic flooring	after 24 – 72 hours*
Layer thickness	5 - 15 mm
in depressions up to	30 mm
Can be feathered out to	2 mm
*depending on temperature	

Fields of Application

KÖSTER SL Premium is designed for leveling uneven concrete surfaces as well as for surfaces covered with KÖSTER VAP I 2000 vapor barriers. It is intended for interior use.

Substrate

The substrate has to be sound and solid as well as free of bond inhibiting agents such as grease and oil. Remove all bond breaking substances such as laitance, loose particles, dust, formwork release oil, etc. The substrate can be prepared according to need by shotblasting, grinding, or brushing. Concrete and screed substrates are primed with KÖSTER SL Primer to reduce absorption before application. Non-absorbent tile substrates must be removed or ground down to an absorbent layer.

Application

The pull-off strength of substrates which are to be trafficked or that are to be treated with KÖSTER VAP I 2000 coatings must have a min. tensile strength of 1.5 N/mm². Do not acid etch substrates or clean the substrate with chemicals. Do not apply over adhesive residue. Do not bridge expansion joints with the KÖSTER SL Premium. Expansion joints must be installed in accordance with local guidelines. Mix each 25 kg bag of KÖSTER SL Premium with 5.2 l of potable water. The water is placed in a clean mixing vessel and the powder added while constantly mixing. Use an electrical paddle mixer and mix intensively for 3 minutes until a flowable, lump free consistency is reached.

Distribute the material in the desired layer thickness directly after mixing. Mix and distribute the material in a constant work flow to avoid visible work edges. The material is self leveling when working "fresh in fresh". While working larger areas use a KÖSTER Gauging Rake to distribute the material. Rolling the surface with a KÖSTER Spiked Roller immediately after distribution creates a very smooth surface through better de-airing. Install the KÖSTER SL Premium within 20 minutes. Do not delay successive pours by more than 10 minutes to avoid visible work edges.

The surface qualities of the underlayment depend on workmanship, layer thickness, and curing parameters so that variations from a sample surface may occur.

Moisture sensitive floor coverings and sealers may not be applied before the material has fully cured. Depending on the temperature it may take between 24 and 72 hours for the material to attain a residual moisture content of less than 3 M%.

Plain concrete without KÖSTER VAP I 2000 vapor barrier:

Concrete substrates are prepared by shot blasting, milling and/or sandblasting in order to achieve an absorbent, open pored substrate. The cleaned concrete substrate is primed with KÖSTER SL Primer according to the Technical Guideline.

Concrete coated with a KOSTER VAP I 2000 vapor barrier:

When applying onto smooth, non-absorptive substrates such as KÖSTER VAP I 2000 systems, KÖSTER SL Premium can be applied in layers up to 12 mm. It is necessary to prime such substrates with KÖSTER VAP I 06, consumption approximately 50 - 70 g/m². Depressions in the substrate should be filled below the VAP I 2000 layer. The coating can be opened to foot traffic after 24 hours and to

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traffic after 72 hours.

Aftertreatment

Curing can be aided by covering the hardened material with polyethylene sheets. This reduces surface shrinkage tension especially when the material has been applied in thick layers.

Consumption

Approx. 1.5 kg / m² / mm layer thickness

Cleaning

Clean tools immediately after use with water.

Packaging

SL 280 025 25 kg bag

Storage

Store the material in a dry environment at temperatures between +10 °C and +30 °C. In originally sealed packages, the material can be stored for a minimum of 6 months.

Safety

Wear protective gloves and goggles when processing the material. Observe all governmental, state, and local safety regulations while processing the material.

Eye contact – Flush immediately with water and consult physician.

Do not rub eyes.

Skin contact – Wash off immediately with soap and water.

Related products

KÖSTER VAP I 2000	Prod. code CT 230
KÖSTER VAP I 2000 FS	Prod. code CT 233
KÖSTER Gauging rake	Prod. code CT 915 001
KÖSTER SL Primer	Prod. code SL 189 005
KÖSTER SL	Prod. code SL 281 025
KÖSTER SL Flex	Prod. code SL 284 025
KÖSTER SL Flow Test Board	Prod. code SL 900 001

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KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • info@koester.eu • www.koester.eu