



KÖSTER CT 227 1C Silane

Technical Data Sheet CT 227

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- Test certificate (Nr. 12 9815-S/20) MPI Adendorf, individual test of the slip-resistant property according to DIN 51130, 02/2014 and DGVC rule 108-003; with KÖSTER CT 227 1C Silane; R 10 slip resistance
 - Test certificate (Nr. 12 9868-S/20) MPI Adendorf, individual test of the slip-resistant property according to DIN 51130, 02/2014 and DGVC rule 108-003; with KÖSTER CT 227 1C Silane; R 11 slip resistance
 - Test certificate (No. 12 9939-S / 20) MPI Adendorf, individual test of the slip-resistant property according to DIN 51130, 02/2014 and DGVC rule 108-003; with KÖSTER CT 227 1C Silane; R 12 slip resistance, displacement space V 8

One component floor covering for light to medium exposure.

Features

Universally applicable, pigmented, open to vapor diffusion, environmentally friendly, crack-bridging, elastic and easy-to-use sealant with very good covering capacity for indoor and outdoor use on mineral substrates, such as e.g., concrete, cement screed, mineral plaster and on stable old coatings. For use in private and commercial areas. Resistant to medium chemical and mechanical loads, UV and weather resistant.

Adding 2% by mass of KÖSTER Anti-Slip Granules 20 to the binder an R 10 slip resistance can be achieved. An R 12 can be achieved by full broadcasting with quartz sand with a grading curve of 0.7-1.2 mm. By using KÖSTER Color-Chips in contrast and/or full coverage, a wide variety of individual surface designs can be achieved.

Technical Data

Viscosity	thixotropic
Density (+23 °C)	approx. 1.6 g / cm ³
Trafficable after (+12 °C /+23 °C / +30 °C)	approx. 48h / 24h / 16h
Final cure (+12 °C /+23 °C /+30 °C)	approx. 10 / 7 / 5 Tage
Elongation at break (7 days)	approx. 30%
Tear strength (7 days)	approx. 2 N / mm ²
Color (standard)	approx. RAL 7035 light grey
Substrate temperature at application	+ 12 °C to + 30 °C
Temp. difference to dew point	min. + 3 °C
Material temperature for application	+ 15 °C to + 25 °C
μ-Value	approx. 6000

Fields of Application

As sealant and painting on floor and wall surfaces made of concrete, cement screed and plaster, for indoor and outdoor use (e.g., sales rooms, garages, balconies, terraces, etc.).

System components

KÖSTER CT 227 1C Silane is a one-component, crack bridging, UV and weather-stable, solvent-free, pigmented floor sealant with very good covering capacity for light to medium chemical and mechanical loads.

KÖSTER Flex Fabric is a highly flexible, tear-resistant plastic fabric for use in indoor and outdoor areas at risk of tearing. It can be used as a reinforcement insert in the transition areas between wall and floor and at penetrations such as floor drains.

KÖSTER CT 327 1C Sealer is a one-component, crack-bridging, open to vapor diffusion, UV and weather-stable, solvent-free transparent sealant for light to medium chemical and mechanical loads.

Due to their good UV and chemical resistance, KÖSTER Color Chips are suitable for surface designs when broadcasted over water-based

and low-solvent resinous coatings. They are available in a wide variety of colors.

Substrate

Concrete and screed substrates as well as mineral plasters are suitable substrates. The substrates to be sealed must be solid, free of dust, oil and grease, and other adhesion inhibiting compounds. Sandy, dusty, or soiled surfaces are to be removed by milling and / or shot blasting down to a coatable, clean substrate.

The minimum bond strength of the substrate must be 1.5 N / mm². The substrate may be a matt damp, but standing water must be removed beforehand.

Before coating, cracks in the substrate should be cut about 2 cm deep with a cut-off grinder and filled with KÖSTER KB-Pox IN. For needling the crack flanks, the KÖSTER Screed Anchors are to be used in cuts arranged perpendicularly to the course of the crack.

Uneven, horizontal floors are leveled out in advance with KÖSTER SL Protect. To do this, prime the prepared substrate with KÖSTER SL Primer. Then KÖSTER SL Protect is applied in the required layer thickness. Before applying KÖSTER CT 227 1C Silane, the surface of KÖSTER SL Protect should be lightly grinded. Inclined surfaces (over 1.5% incline) should be leveled with a layer of KÖSTER WP Mortar with a minimum layer thickness of 5 mm.

For more information, please refer to the respective technical data sheets.

Application

Use as a pigmented surface sealer

As a ready-to-use material, KÖSTER CT 227 1C Silane is rolled up / brushed using the short-nap KÖSTER Resin Roller or brush onto the substrate crosswise, after briefly stirring it with a mechanically mixing device (below 300 rpm) and the KÖSTER Resin Stirrer as a mixing attachment. It is usually applied in one layer with a minimum consumption of 400 g/m². In areas at risk of cracking, at wall-floor transitions and at connections, work in two layers and embed the KÖSTER Flex Fabric into the first layer of KÖSTER CT 227 1C Silane. With the addition of 2% KÖSTER Anti-Slip Granulate 20 by mass, based on the weight of the binding agent, a slip resistance of R 10 is achieved.

Use as a pigmented top coat on surfaces broadcasted with quartz sand

As a ready-to-use material, KÖSTER CT 227 1C Silane is applied to the substrate with a rubber squeegee, after briefly stirring it with a mechanically mixing device (below 300 rpm) and the KÖSTER Resin Stirrer as a mixing attachment, and then rolled up / brushed using the short-nap KÖSTER Resin Roller or a brush. In general, it is usually applied in one layer, which is reworked crosswise. For a structure with slip resistance R 12, at least 400 g / m² of KÖSTER CT 227 1C Silane

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are broadcasted over the entire surface (excess quartz sand must be removed after the material has hardened) with 4 kg of quartz sand with a 0.7 - 1.2 mm grading line, and sealed in one layer with approx. 800 g / m² of KÖSTER CT 227 1C Silane.

Use with contrast or full broadcast with KÖSTER Color Chips and transparent sealing KÖSTER CT 327 1C Sealer

KÖSTER CT 327 1C Sealer is used as a ready-to-use, one-component, transparent sealant on broadcasted layers made with KÖSTER Color Chips. The material is rolled / brushed onto the substrate using the short-nap KÖSTER Resin Roller or a brush. When using KÖSTER Color Chips, the sealer is applied in two layers. The first application serves to integrate the KÖSTER Color-Chips into the sealing system. The second application is used as a top coat. With the addition of 2% KÖSTER Anti-Slip Granulate 20 by mass, based on the weight of the binding agent, a slip resistance of R 10 is achieved. Approx. 0.15 kg / m² are required for each layer. If instead of a satin finish a matt finish is desired, the second coat can be applied with KÖSTER Top Coat 1C Matte. By adding 2% by mass of KÖSTER Anti-Slip Granulate 20 based on the weight of the binder, slip resistance R 11 is achieved. Approx. 0.15 kg / m² are required for each layer.

Consumption

400 – 800 g/m²

KÖSTER CT 227 1C Silane

as pigmented surface sealer:

approx. 0.4 kg / m² (1 layer)

as a pigmented top sealer on quartz sand:

approx. 0.6 - 0.8 kg / m² (1 layer)

KÖSTER Flex Fabric:

upon need

KÖSTER Color Chips

Contrast broadcast:

approx. 0.1-0.3 kg/m²

Full broadcast:

approx. 0.7-1.0 kg / m² in excess

KÖSTER CT 327 1-component sealer

approx. 0.1-0.2 kg / m² per layer (2 layers)

KÖSTER Top Coat 1C Matte

approx. 0.15 kg / m² per layer (2 layers)

KÖSTER Anti-Slip Granulate 20

approx. 2% by mass based on the binder

Cleaning

Clean tools immediately after use with KÖSTER Universal Cleaner.

Packaging

CT 227 005

5 kg metal pail

CT 227 010

10 kg bucket

Storage

KÖSTER CT 227 1C Silane

Cool but frost-free, at temperatures between + 15 ° C and + 25 ° C, in closed containers for at least 12 months

KÖSTER CT 327 1C Silane Sealer

Store frost-free at temperatures between + 5 ° C and + 25 ° C. Can be

stored for at least 6 months in closed containers.

KÖSTER Top Coat 1C Matte

Store frost-free at temperatures between + 5 ° C and + 25 ° C. Can be stored for at least 12 months in closed containers.

The containers should be stored "upside down" after opening in order to minimize the penetration of moisture into the container. Containers are to be closed immediately after partial removal.

Safety

Contains diisocyanate. When working with the material, work clothing that covers arms and legs or a protective suit must be worn. When working in confined spaces or in the "overhead area" hoods or covers must be worn. Wear suitable protective gloves (e.g., nitrile gloves) and protective goggles. Further information can be found in the Material Safety Data Sheet. Obey all local, state, and federal safety regulations when processing the material.

Other

Liquid coatings react to temperature fluctuations with changes in viscosity and adhesion. The application specifications of the technical data must therefore be observed exactly. Coating works should only be carried out at falling or constant temperatures. Low temperatures cause slower, higher temperatures and larger amounts of material cause an accelerated reaction. A distance to the dew point of + 3 ° C must be maintained during and for at least 4 hours after coating. Coatings are to be fully protected against moisture until completely dry. At material temperatures below + 15 ° C, the consistency changes - the material becomes thicker. Depending on the tire manufacturer's rubber compound and other boundary conditions, possible discoloration of the coating cannot be completely ruled out if it comes into contact with tires.

Packaging / Delivery of system components

CT 327	KÖSTER CT 327 1C Sealer	5 kg Bucket
CT 325	KÖSTER Top Coat 1C Matte	5 kg Bucket
W 450	KÖSTER Flexgewebe	1,0 x 50,0 m Roll
CT 429	KÖSTER Color Chips	5 kg Box
CT 411	KÖSTER Antirutschgranulat 20	200 g container

Related products

KÖSTER Top Coat 1C Matte	Prod. code CT 325
KÖSTER CT 327 1C Sealer	Prod. code CT 327 005
KÖSTER Anti-Slip Granulate 20	Prod. code CT 411 200
KÖSTER Color-Chips	Prod. code CT 429
Quartz Sand 0.7 - 1.2 mm	Prod. code CT 485
KÖSTER Screed Anchor 6 mm x 70 mm	Prod. code CT 910
KÖSTER Resin Roller 250 mm	Prod. code CT 916
KÖSTER Resin Roller 150 mm	Prod. code CT 917
KÖSTER KB-Pox IN	Prod. code IN 231
KÖSTER Resin Stirrer 100 mm	Prod. code IN 988
KÖSTER SL Primer	Prod. code SL 189 005
KÖSTER SL Protect	Prod. code SL 286 025
KÖSTER Flex Fabric	Prod. code W 450 100
KÖSTER WP Mortar	Prod. code W 534 025
KÖSTER Universal Cleaner	Prod. code X 910 010

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