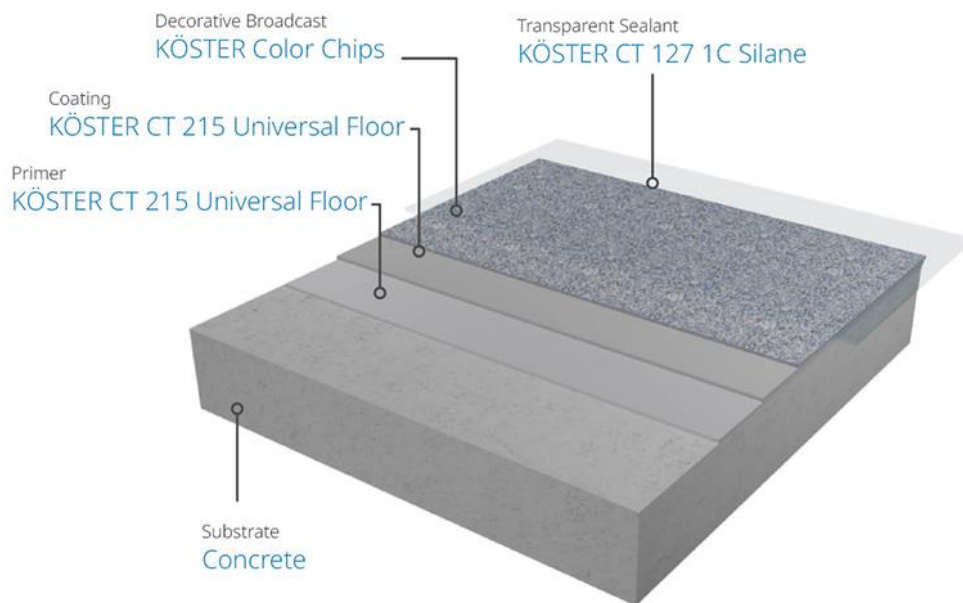


# KÖSTER Universal Floor System

Highly versatile, multi-purpose scratch-resistant primer, coating, and sealing system for light to medium chemical and mechanical loads on wall and floor surfaces

**System Data Sheet**

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## Properties and areas of application

The KÖSTER Universal Floor System is an easy to apply coating and sealing system for mineral substrates for light to medium mechanical and chemical stresses in commercial and private real estate. As a water based epoxy resin, KÖSTER CT 215 Universal Floor is also suitable for coating damp substrates without determining the residual moisture content. Through the use of KÖSTER Color Chips in contrast and rejection broadcast and the incorporation of KÖSTER Anti-slip Granulate 20, a wide variety of individual surface structures and designs can be achieved. KÖSTER CT 127 1C Silane, a one-component, water vapor permeable, solvent-free, UV-stable, transparent cover sealant must be applied over KÖSTER Color Chips or other broadcast surfaces.

## System components

### KÖSTER CT 215 Universal Floor

is a solvent-free, water based epoxy resin with a silky matt surface appearance. In addition to the standard colors, a large variety of colors are available upon request.

### KÖSTER CT 127 1C Silane

is a single component, solvent-free, UV-stable, transparent silane and cover sealant.

### KÖSTER Filler Fine

is a filler with a special grading curve to achieve layer thicknesses of up to 2 mm in the KÖSTER Universal Floor System.

### KÖSTER Color Chips

Due to their good UV and chemical resistance, they are suitable for the surface design of water based and low-solvent resin coatings. They are available in a large variety of colors.

### KÖSTER Anti-slip Granulate 20



Special polymer granulate to increase the slip resistance of top coats.

### Substrate

Suitable substrates include concrete and screed as well as mineral plasters. The substrates must be free of laitance, dust, oils and greases. Damp substrates are suitable for coating. The surface must be prepared by suitable means, (preferably shotblasting, milling or grinding). The substrate must have a minimum adhesive tensile strength of 1.5 N/mm<sup>2</sup>. Defects and minor breakouts in horizontal and slightly inclined substrates can be closed in advance with a mixture of KÖSTER CT 215 Universal Floor and KÖSTER Filler Fine in a mixing ratio of at least 1:5.

A workable material is created from the mixture. Excessive surface roughness is leveled out with KÖSTER self-leveling materials such as KÖSTER SL Premium. See the technical data sheets for KÖSTER self-leveling floors. Floor and room temperature should be between +10 °C and +25 °C during processing and curing. During processing, a minimum distance of +3 °C to the dew point must be maintained, (see the KÖSTER dew point table).

### Processing

#### Priming

The material should be brought to at least +15 °C.

Mix the CT 215 Universal Floor components (A and B) with an electrical mixer below 400 rpm for at least 2 minutes until a homogeneous consistency is achieved. The KÖSTER Resin Stirrer is suitable as a mixing attachment for good mixing results. To avoid mixing errors, unmixed components must be scraped from the mixing container walls and mixed in during re-potting. Re-potting insures container buildup is thoroughly mixed into the Material. After mixing KÖSTER CT 215 Universal Floor is diluted with 25 m% of clean tap water. The material is applied to the substrate using a KÖSTER Resin Roller. In order to avoid material accumulation, the primed surface is immediately backrolled in two directions. Spray application is possible on vertical surfaces.

#### Leveling / self-leveling flow coat

After earliest 4 but no later than 24 hours after application of the primer, the KÖSTER Universal Floor system can be applied. KÖSTER Filler Fine is added to the mixed and re-potted KÖSTER CT 215 in a mixing ratio of 1:1. Container buildup must be thoroughly mixed into the Material. To increase the flowability, 10 m% of pure tap water is immediately added to the finished mixture and mixed until homogenous. Distribute the Material on the surface and spread using a toothed trowel depending on the layer thickness of the coating, between 1.0 and 2.0 mm. The tooth gauge must correlate to the planned layer thickness. For optimal de-airing and to increase flowability, the coating is immediately backrolled with a metal spiked roller in two directions. When processing several containers, the amount of water to be added must be precisely adhered to. Different amounts of water can lead to differences in color. Ensure sufficient ventilation of the coated surface after processing to allow proper curing.

#### Pigmented coating

KÖSTER CT 215 Universal Floor is applied to the surface immediately after mixing, (after 4 hours but no later than 24 hours after application of the primer or the leveling coat) with a KÖSTER Resin Roller. The instructions for mixing KÖSTER CT 215 Universal Floor as described in the Primer section apply. The addition of water or solvents is not permitted! To achieve a tested slip resistance of class R11, 2 m% KÖSTER Anti-slip Granulate 20 is mixed into the Material after mixing the A and B components, (20 g/kg). The material is spread evenly over the surface with a KÖSTER Resin Roller and then carefully backrolled in two directions. The coated surface must be adequately ventilated during the curing phase of KÖSTER CT 215 Universal Floor.

#### Contrast or full surface broadcast with KÖSTER Color Chips

KÖSTER Color Chips are broadcast onto the fresh coating as contrast. In the case of full-area broadcast with KÖSTER Color Chips, the excess is removed from the surface with a stiff



broom. Before vacuuming, we recommend intermediate sanding with 120 grain sandpaper to homogenize the surface or breaking protruding peaks of the Color Chips with a clean smoothing trowel or a metal scraper.

**Transparent sealing with KÖSTER CT 127 1C Silane**

After a minimum of 24 hours, KÖSTER CT 215 Universal Floor is sealed with KÖSTER CT 127 1C Silane in two layers using a KÖSTER Resin Roller. To achieve a slip resistance class of R11, 20 g/kg of KÖSTER Anti-slip Granulate 20 (2 m% of the binding agent) is mixed into the material for the second layer. The second application of KÖSTER CT 127 1C Silane must not be applied later than 24 hours. We recommend wearing spiked shoes when processing the material.

**Consumption**

**KÖSTER CT 215 Universal Floor**

Priming: approx. 0.2–0.3 kg/m<sup>2</sup>

**KÖSTER CT 215 Universal Floor**

Coating: approx. 0.2–0.3 kg/m<sup>2</sup>



**KÖSTER Color Chips**

Contrast broadcast: from 50 g/m<sup>2</sup> (depending on degree of covering)

Full broadcast to rejection:

approx. 0.7–1.0 kg/m<sup>2</sup>



**KÖSTER Filler Fine** (according to need):

approx. 1.0 kg per 1.0 kg KÖSTER CT 215 Universal Floor



Transparent coating:

**KÖSTER CT 127 1C Silane**

approx. 0.1 kg/m<sup>2</sup> per layer



**KÖSTER Anti-slip Granulate 20:**

approx. 2.0 m% of binder



**Packaging**

**KÖSTER CT 215 Universal Floor**

- 10 kg Combi-package
- 25 kg Combi-package upon request

**KÖSTER Color Chips**

5 kg Package

**KÖSTER Filler Fine**

20 kg Package

**KÖSTER CT 127**

**1C Silane**

5 kg Package

**KÖSTER Anti-slip Granulate 20**

- 0.2 kg package

**Tools**

KÖSTER Resin Roller 10 cm

KÖSTER Resin Roller 25 cm

KÖSTER Resin Stirrer

**Cleaning of Tools**

Immediately after use with clean water.

**Storage**

Store all system components dry and frost free in originally sealed packages at temperatures between +5 °C and +25 °C.

**Safety**

Wear protective clothing, gloves and goggles during processing and application of the Material. Observe all local and national safety guidelines.



### KÖSTER CT 215 Universal Floor Standard colors



**RAL 7012**  
Basalt grey



**RAL 7030**  
Stone grey

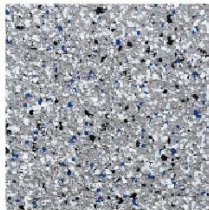


**RAL 7032**  
Pebble grey



**RAL 7035**  
Light grey

### KÖSTER Color Chips Selected colors



#### Note

Liquid polymers react to temperature fluctuations by changing their viscosity and/or curing behavior. Application should only be carried out during falling or constant temperatures. Low temperatures will slow the reaction; high temperatures and mixing large volumes will increase the reaction rate. Protect the coating from moisture of all kinds during application and curing. The information in the latest version of the technical data sheets must be observed.

See the QR code or [www.koster.eu](http://www.koster.eu).