



KÖSTER UC 300

Technical Data Sheet CT 253 010

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Solvent free top coat for KÖSTER UC 100 and primer for the KÖSTER UC System

Features

KÖSTER UC 300 is a solvent free primer and top coat in one product. It can be used as a sealer and primer as is, or when mixed with KÖSTER UC Pigment Paste it functions as a decorative topcoat for KÖSTER UC 100 and KÖSTER UC 200.

Technical Data

Mixing ratio	4.45 kg liquid comp. (A) 3.70 kg resin comp. (B) 1.85 kg powder comp. (C) 0.45 kg KÖSTER Pigment Paste
Density (+ 20 °C)	1.06 g / cm ³
Pot life at + 23 °C	approx. 15 min.
Application temperature	+ 5 °C to + 25 °C
Dew point	mind. +3 °C

Fields of Application

KÖSTER UC 300 is used for priming absorbent substrates before application of the KÖSTER UC System and for top coating KÖSTER UC 100 and KÖSTER UC 200. For decorative applications KÖSTER UC 300 can be pigmented in various colors using KÖSTER UC Pigment Paste. KÖSTER UC 300 is suitable for the food industry, bakeries, pharmaceutical industry, cleaning and filling areas, bottling facilities, multi-function halls, production facilities, garages, driving lanes in industry and storage facilities, sanitary facilities, agricultural structures such as silos and feed alleys, and many other areas.

Substrate

The substrate must be dry, free of loose particles, as well as free of oil and grease. Contaminated, machine-troweled, and unstable surfaces must be removed down to a coatable layer. The surface is prepared by shotblasting. A surface roughness comparable to an ICRI CSP of 3-4 is suggested. Dust must be completely removed using an industrial grade vacuum cleaner. Cracks and surface defects greater than 5 mm are opened and cleaned down to a solid layer and are filled with KÖSTER LF-BM mixed with kiln dried silica sand. Surface cracks and absorbent substrates can be primed with unpigmented KÖSTER UC 300. Substrates with high vapor drive are treated with KÖSTER VAP I 2000 FS. It is the responsibility of the owner or their representatives to examine the substrate for contaminants and moisture content. Please contact the KÖSTER technical department for additional details and guidelines concerning testing.

Application

Planning the installation

Proper planning is essential to achieve a uniform appearance. Join lines will show in the finished floor. Lay out the installation in sections so that the full width of the area can be coated in 15 minutes or less in order to avoid placement lines. Work must be planned so that each successive batch can be worked into the previous.

Treating cracks and defects in the substrate

Defects in the substrate are filled with KÖSTER LF-BM mixed with kiln

dried sand. Larger cracks should be opened and filled with KÖSTER LF-BM filled with kiln dried sand. Elevations should be ground flat before installing KÖSTER UC 300.

The surface and room temperature must be at least + 3 °C above the dew point during and for 12 hours after application.

Mixing

KÖSTER UC 300 consists of three components. All components must be brought to a temperature between + 15 °C and + 25 °C before application. Always mix complete containers, and empty the individual containers completely. Never mix partial containers. Choose a suitable area for mixing, and cover it with a tarp or PE foil to protect it from splashed material. Do not mix and apply in direct sunlight or at temperatures greater than + 25 °C. Plan for multiple clean mixing vessels and rotate their use as to reduce waiting times between mixing. Before mixing make sure all preparation work has been done and all required machines and tools are ready. Once installation has commenced it may not be interrupted. The mixing cycle is to be timed with a stopwatch. The A component is mixed into the B component and mixed for approx. 30 seconds with a resin stirrer, for example the KÖSTER Resin Stirrer, with approx. 300 rpm. When coloring the material, the KÖSTER UC Pigment Paste is then added and mixed in. Only after mixing the A and B component is the powder mixed in using a double paddle mixer such as the KÖSTER Double Paddle Mixer. Slowly add the powder and mix for 2 minutes. Make sure material sticking to the side of the mixing vessel is completely mixed in. Re-pot the material and mix for a further minute. Properly mixed material is easily spreadable and achieves a homogenous, smooth surface.

Incomplete mixing shows in a reduced spreadability and can lead to blistering of the surface. Poorly mixed material must be immediately removed from the surface and discarded.

Remove material from the mixer by letting it spin free at a high rpm and by wiping clean. Clean the mixing vessels regularly so as not to have old material mixed in with the new. This could lead to irregular curing and blister formation.

Install mixed material without delay.

Important:

- Mix only as much material as can be applied within 15 minutes
- Never try to re-mix the material after it has begun to stiffen
- A difference of + 3 °C is to be kept from the dew point. Install the material during stable or falling temperatures

Application method

Pour all mixed material onto the floor in a ribbon and distribute it in the desired thickness with a notched rubber squeegee such as the KÖSTER Squeegee or short napped roller. Immediately backroll the material crosswise and lengthwise. Use a trowel to distribute material along details and immediately backroll. Be sure to quickly work fresh

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

material into previously installed material to avoid visible work edges. Ensure tools are dry before they come into contact with KÖSTER UC 300. Check the consumption regularly during application to ensure that the tools and application methods are delivering the desired layer thickness.

When topcoating broadcast KÖSTER UC 100 and KÖSTER UC 200 coatings, the surface should be lightly sanded with a disc sander (80 grit) after it has hardened tack free. The resulting surface is topcoated with KÖSTER UC 300. The KÖSTER UC 300 is poured onto the surface, distributed with a squeegee, and backrolled with a short nap roller crosswise and lengthwise.

Failure to follow instructions may leave variations in surface texture and color. Coarse kiln-dried sand may be broadcast into the surface to increase slip-resistance. Back-roll slightly after broadcasting to lock the aggregate into the coating. Excessive back-rolling over broadcast aggregate may reduce slip resistance.

Clean the squeegee regularly with solvent to prevent material build-up. Ensure that the tools are dry before they come into contact with KÖSTER UC 300.

NOTE

Keep moisture from coming into contact with KÖSTER UC 300 during installation and curing. Water may alter the surface appearance. Allow the material to fully cure. A minimum of 8 hours curing time at + 23 °C, 24 hours at + 10 °C is required before allowing foot traffic. Longer curing time is required before fully loading the floor.

The product is best installed at temperatures between + 15 °C and + 25 °C. Exposure to UV light will change the hue of KÖSTER UC 300. Sunlight and metal halide lamps will cause yellowing without affecting performance. Slight batch-to-batch color variations may occur. When ordering to match a previous color, inquire if the same batch number or quality control number is still available. KÖSTER UC 300 can be slippery when oily. Do not apply to un-reinforced sand cement screeds, asphalt or bitumen substrates, glazed tile, nonporous brick and tile, magnetite, copper, aluminium, polyesters, or elastomeric membranes.

Consumption

600 - 800 g / m² (depending on surface roughness)

Cleaning

Clean tools immediately after use with KÖSTER Universal Cleaner. Cured material can only be mechanically removed.

Packaging

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10 kg combipackage: Component A 4.45 kg; Component B 3.70 kg; Component C 1.85 kg

Storage

Store the material in a dry environment between + 5 °C and + 25 °C. In originally sealed containers it can be stored for a minimum of 6 months.

Safety

Wear gloves and goggles while processing KÖSTER UC 300. Observe all governmental, state, and local safety regulations when installing the material.

Related products

KÖSTER LF-BM
KÖSTER VAP I 2000
KÖSTER VAP I 2000 FS
KÖSTER VAP I 2000 UFS
KÖSTER UC 100
KÖSTER UC Pigment Paste
KÖSTER Universal Cleaner

Prod. code CT 160
Prod. code CT 230
Prod. code CT 233
Prod. code CT 234
Prod. code CT 251 026
Prod. code CT 451
Prod. code X 910 010

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