



KÖSTER CT 221

Техническое описание / Арт. № CT 221

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Test Report from the Institute of Construction materials, building and fire protection, MPA Braunschweig, 1200/535/15, vom 22.05.2017
 Material testing and development GmbH u. Co.KG, Test Certificate Nr. 131044, SRT/17, 28.04.2017, "Method for testing the traction of surfaces: Pendulum test"
 Material testing and development GmbH u. Co.KG, Test Certificate Nr. 128117 - S/17, "Individual test of the slip resistant properties according to DIN 51130".
 Test Report from the Institute of Construction materials, building and fire protection MPA Braunschweig, Classification of the fire properties according to EN 13501-1:2010-1, K-2300/134/17-MPA BS, 24. Februar 2017

Self leveling floor coating for trafficable areas and coating layer for CT 121 in the KÖSTER OS-8 System

	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 16 CT 221 EN 13813:2002 KÖSTER CT 221 Synthetic resin for internal uses
	Reaction to Fire: E _{fl} Release of Corrosive Substances: SR Water vapour permeability: Class III Abrasion Resistance: ≤ AR 0,5 Tensile strength: ≥ B 2,0 Resistance to Impact: IR 4 Sound Absorption: NPD Schalladsorption: NPD Thermal Insulation: NPD Chemical Resistance: NPD Dangerous Substances: SR

Описание и свойства

KÖSTER CT 221 is a rigid, 2 component, solvent free self leveling floor coating for the protection of concrete. It is a highly mechanically resistant and chemically resistant top coat which is used to protect concrete not at risk of cracking. The coating is self leveling and is compatible with various broadcast materials.

Технические характеристики

Mixing ratio	4:1 by Mass
Density	approx. 1.5 g/cm ³
Color	Standard pebble grey (other colors upon request)
Pot life	approx. 60 min.
Material temperature while processing	min. + 15 °C - max. + 25 °C
Substrate temperature	min. + 8 °C
Processing temperature	min. + 8 °C - max. + 30 °C
Viscosity (+ 21 °C)	approx. 5000 mPa·s
Compressive strength	> 79.1 N/mm ² (average)
Bending tensile strength	> 12 N/mm ²
Adhesive Tensile strength (C25/30)	3.9 N/mm ² (failure in concrete)

Области применения

KÖSTER CT 221 is used to protect trafficked concrete surfaces (workshops including forklift traffic, parking decks, etc.) in interior areas.

Along with KÖSTER CT 121 the coating conforms to a protective coating in accordance with DIN 1504-2, DIN V 18026 and DIN EN 13813 ("OS 8").

Основание

The substrate must be dry, solid, free of loose particles, oils, grease, and other contaminants. Sandy, dusty, or soiled substrates are to be prepared by shotblasting down to a solid and clean layer. Grinding as a method of substrate preparation is only allowed on details and smaller areas that shotblasting equipment cannot reach. The minimum average tensile strength of the substrate should be 1.5 N / mm² and no single value should be below 1 N/mm². The shotblasted and ground surface must be vacuumed with an industrial vacuum cleaner to remove all dust from the surface. After mechanical substrate preparation strong surface roughness can be evened with KÖSTER Self Leveling products such as KÖSTER SL Premium. If the substrate shows cracks these can be repaired with KÖSTER CT 121 filled with KÖSTER Quartz Sand MA 30. Surface roughness can be filled or a prepared smooth surface (including KÖSTER SL products) are primed with KÖSTER CT 121. In case of the use of mineral based underlayers the substrate must reach a maximum moisture content of 4%, (for KÖSTER SL Products approximately 4 days). If surface roughness has

	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 17 CT 221 EN 1504-2:2004 KÖSTER CT 221 Protection against penetration of constituents (1.3) Surface protection product - Coating Physical Resistance (5.1) Resistanc to chemicals (6.1)
	Linear Shrinkage: ≤ 0,3% Compressive strength: Class I ≥ 35 MPa CO ₂ permeability: S _d ≥ 50 m Water vapour permeability: Class III (S _d ≥ 50 m) Capillarywater absorption and permeability: w ^{0,5} Adhesive tensile strength and debonding temperature: a) no cracks, no blisters, no change compatability; b) ≥ 2,0 (1,59) Resistance to strong chemical attack: Buchholz ≤ 50% Impact resistance: No cracks, no debonding Abrasion resistance: < 3000 mg Reaction to fire: Class E _{fl}

Информация в данном техническом описании соответствует нашим знаниям и основана на последних результатах наших исследований и на нашем практическом опыте в этой области. Все приведенные тестовые данные являются усредненными показателями, которые были получены в заданных условиях. Исполнитель несет ответственность за правильность применения и за окончательный результат с учетом конкретных условий на строительной площадке. Это может потребовать внесения корректировок в приведенные здесь рекомендации для стандартных случаев. Характеристики, сделанные нашими сотрудниками или представителями, выходящие за рамки указанных здесь спецификаций, требуют письменного подтверждения. Признанные нормы, технические руководства, законы и последние достижения техники должны учитываться. Гарантия применима при соблюдении всех наших условий. Это версия технического описания переиздана; все предыдущие версии недействительны.

been filled using KÖSTER Construction Resin, KÖSTER LF-BM, or a KÖSTER VAP product, the KÖSTER CT 121 should be applied between 24 and 48 hours. Kiln dried filler material such as KÖSTER Quartz Sand MA 30 is first mixed into the A component. Then the B component is mixed in. During the application and for at least 24 hours afterwards the substrate must have a minimum temperature difference of + 3 °C to the dew point. The substrate must have a minimum temperature of + 5 °C.

Нанесение

Installation according to DIN 1504-2 and DIN V 18026

As a primer KÖSTER CT 121 is mixed evenly with Quartz Sand with a grading curve of 0.06 - 0.36 mm (CT 483 025) in a ratio of 1:1 by weight and applied with a consumption of 800 g/m² KÖSTER CT 121 and 800 g/m² Quartz Sand. Immediately afterwards the surface is broadcast to rejection with Quartz Sand with a grading curve of 0.4 - 0.8 (CT 488 025) consumption approx. 4 kg/m². After 24 hours of curing the excess broadcast is removed. The Dew Point is calculated before any coating works are started. The KÖSTER CT 221 components must be tempered to between + 15 °C and + 25 °C. Mix intensively using a slowly rotating electrical mixer. The material must be mixed at least 2 minutes until it is streak free and homogeneous in appearance. All material sticking to the mixing vessel sides are scraped and mixed into the material. Re-pot the material and mix for a further minute to avoid mixing failures.

The mixed material is spread evenly onto the substrate with a rubber squeegee or trowel and pulled over the aggregate of the primer broadcast, (consumption approx. 800 g/m²).

For ramps and driveways with a slope of up to 10%, the KÖSTER CT 121, mixed with quartz sand, must be mixed with 1-2% KÖSTER KB-Pox Thickening Agent. In the case of slopes over 10%, in addition to adding the thickening agent, the entire surface must be fully broadcasted.

Installation on smooth industrial floors

When installing on top of KÖSTER Construction Resin, KÖSTER LF-BM, KÖSTER CT 121 or KÖSTER VAP Products, the KÖSTER CT 221 is installed in two layers each with a minimum consumption of 1.5 kg/m². The second layer must be installed within 24 hours. The material is distributed with a toothed rubber squeegee or trowel. Immediately afterwards the material is rolled with a spiked roller in two directions. Wear spiked shoes during application.

Расход

1,5 кг / м² (1 мм толщины слоя)

Очистка инструмента

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

Упаковка

CT 221 025 25 кг комби-тара

Хранение

Store the material at temperatures between + 10 °C and + 25 °C; in originally sealed packages, the material can be stored for a minimum of 12 months.

Меры предосторожности

Avoid inhaling the fumes and skin contact. Wear protective clothing, gloves and goggles during processing and application of the material. Make sure the room is well ventilated. In case of skin contact, wash off the material immediately with lots of soap and water. In case of eye contact, flush eyes immediately and thoroughly with water or preferably an emergency eye wash bottle. Consult a physician. During processing and application of the material, do not eat, smoke, or handle open flames. The warnings and safety recommendations on the packaging and on the Material Safety Data Sheet and the regulations of relevant professional organisations must be observed and obeyed. Observe all governmental, state, and local safety regulations when installing the material.

Suggestions

Liquid polymers react to temperature fluctuations by changing their viscosity and/or curing behavior. The instructions given in the Technical Data Sheets must be followed. 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. A temperature difference of + 3 °C to the dew point must be ensured during application and curing. Protect the coating from moisture of all kinds during application and curing.

Прочее

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.

Смотрите также

KÖSTER CT 121	Арт. № CT 121
KÖSTER LF-BM	Арт. № CT 160
КЕ́СТЕР Строительная Смола	Арт. № CT 165 025
КЕ́СТЕР ВАП И 2000	Арт. № CT 230
КЕ́СТЕР ВАП И 2000 ФС	Арт. № CT 233
КЕ́СТЕР ВАП И 2000 УФС	Арт. № CT 234
КЕ́СТЕР Игольчатый Валик	Арт. № CT 914 001
KÖSTER Squeegee	Арт. № CT 918
KÖSTER SL Premium	Арт. № SL 280 025
КЕ́СТЕР СН Эластичный	Арт. № SL 284 025
KÖSTER SL Protect	Арт. № SL 286 025
КЕ́СТЕР Универсальный Очиститель	Арт. № X 910 010

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