



## KÖSTER PS Flex

Technical Data Sheet CT 276 010

Issued: 2016-10-05

- General construction certification from the DIBt - Z-59.15-421 - Interior coatings with "KÖSTER PS-Flex" for the interior coatings of steel containers for storing zur Innenbeschichtungen von Stahlbetonbehältern zur Lagerung von manure, liquid manure, and silage effluent.  
 - MPS BS - 2300/104/15-3/2015-Br/Mü - Testing for classification according to the DIN 4102-B2  
 - MPA HB - PZ 50757-14 - Testing of the static crack bridging according to subsection 5.5.8.2. of the renovation guideline part 4 - at 0 °C and - 20 °C

### 3 component, abrasion resistant, elastic floor coating for interior and exterior use

#### Features

Multi-purpose, three component, abrasion resistant elastic floor coating with very good bonding characteristics to all mineral substrates. KÖSTER PS Flex is UV resistant, self leveling, and resistant to high mechanical stresses and stresses caused by diluted acids, alkalis, and salt solutions.

#### Technical Data

Mixing ratio by weight A : B: C	4 : 2 : 0.05
Color	Grey
Density (+ 23 °C)	approx. 1.15 g / cm <sup>2</sup>
Viscosity (+ 23 °C)	thixotropic
Pot life (+ 23 °C)	approx. 30 min
Substrate temperature	+ 12 °C - + 30 °C
Material temperature	+ 15 °C - + 25 °C
Application of second layer (+ 23 °C)	earliest after 2 hours
Density (of mixture)	1.15 kg / l
Elongation at break	> 80 %
Tensile strength at break	approx. 4 N / mm <sup>2</sup>
Adhesive tensile strength (concrete)	> 2 N/mm <sup>2</sup>
Abrasion resistance	AR 0.5 (EN 13813)
UV Resistance	UV 2000 h UV-A 320 nm
Temp. difference to Dew Point	min. + 3 °C
Layer thickness	1.6 – 2 mm

#### Fields of Application

For interior and exterior floors open for pedestrian and vehicular traffic such as balconies and terraces, garages, parking garages, industrial floors, etc.

#### Substrate

The substrate must be 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 tensile strength of the substrate is 1.5 N / mm<sup>2</sup>. The residual moisture content of the substrate may not exceed 4 M %.

Mineral substrates are to be primed with an epoxy such as KÖSTER Construction Resin or KÖSTER LF-BM with a consumption of 300 – 500 g/m<sup>2</sup>. Rough substrates, for example grinding tracks, are leveled with KÖSTER LF-BM filled with kiln dried quartz sand in a mixing ratio of 1:4.

When the slab is exposed to moisture from below, the surface must be treated with KÖSTER VAP I 2000. After surface preparation with reaction resins the substrate must cure for a minimum of 12 hours.

#### Application

The components should be brought to a temperature of approx. + 15 °C. The catalyst, (component C), is mixed intensively with the hardener, (component B), using a slowly rotating electrical mixer until it is streak free and a homogenous consistency is reached. This mixture can be left up to 5 days. The catalyst / hardener mixture is then mixed into component A and again thoroughly mixed. Re-pot the material and mix again to avoid mixing failures. The minimum total mixing time is 3 minutes.

Immediately after mixing the material is poured out onto the surface and spread with a squeegee or toothed surface scraper. If a rough surface as slip resistance is required, we suggest lightly broadcasting kiln dried quartz sand into the surface, ø 0.1 – 0.4 mm.

#### Consumption

Total consumption 1.8 kg/m<sup>2</sup> - 2.3 kg/m<sup>2</sup>

#### Cleaning

Clean tools immediately after use with turpentine.

#### Packaging

CT 276 010 10 kg combipackage

#### Storage

Store the material at temperatures between + 15 °C and + 25 °C; in originally sealed packages the material can be stored for a minimum of 12 months.

#### Safety

Do not inhale fumes. Avoid skin contact. Wear protective clothing, gloves, and goggles. Work only in well ventilated areas. In case of skin contact wash well with plenty of soap and water. In case of eye contact rinse thoroughly with water, for example using an eye wash bottle, and consult a physician. Do not eat, smoke, or use any open flame while working with chemicals. Follow the hazard warnings and safety instructions on the packaging and on the Technical Guidelines, as well as the relevant provisions from local and governmental safety organizations.

#### Other

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.

#### Related products

KÖSTER LF-BM

Prod. code CT 160

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.

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

KÖSTER Construction Resin

Prod. code CT 165  
025

KÖSTER VAP I 2000

Prod. code CT 230

KÖSTER Spiked Roller

Prod. code CT 914  
001

KÖSTER Gauging rake

Prod. code CT 915  
001

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