



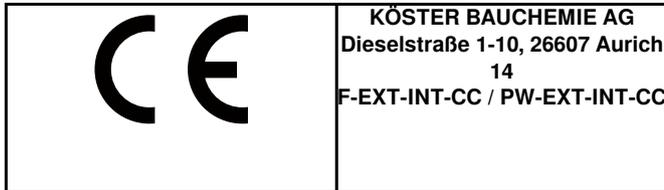
KÖSTER PU-Flex 25

Technical Data Sheet J 235

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EN ISO 11600, F - 25LM
Laboratory Report P5160-E, Polymer Institute according to ISO 11600

Elastic, one component, low modulus polyurethane sealant



Features

KÖSTER PU-Flex 25 is an highly elastic, low modulus polyurethane sealant, with good UV resistance and excellent adhesion to typical construction materials. KÖSTER PU-Flex 25 is one component and cures with moisture to form a flexible sealant which can be overpainted after curing is finished. The sealant is non sagging, highly thixotropic, easy smoothing and has good workability.

Advantages

- Highly elastic joint sealant
- Multiple substrate application
- Easy application on horizontal and vertical surfaces
- For interior and exterior use
- Single component - no mixing required
- Fast application with only a caulking gun
- Less waste through tubular bags instead of plastic cartridges

Technical Data

Properties of product prior to curing:

Chemical basis	Polyurethane
Odor	Characteristic
Viscosity	Non sag
Color	approx. RAL 7040 "window gray"
Specific gravity	approx 1.32 gr / cm ³
Inflammability point	+ 60 °C
Freezing point	- 10 °C
Curing speed at 25 °C and 50 % R.H	2 mm after 24 hours
Skin formation	approx. 3 hours
Max. joint width	30 mm

Properties of cured product:

Hardness Shore A	approx. 25
Elongation at break	> 600%
E Modulus	0.22 Mpa
Recovery from deformation	90%
Shrinkage	5%
Admissible joint movement	±35%
Temperature resistance	- 30 °C to + 80 °C
Color	Grey

Fields of Application

The KÖSTER PU-Flex 25 is designed for civil and industrial movement, expansion, control and dilatation joints in architectural and heavy construction. To be used as a sealant between concrete, mortar, brickwork, natural and synthetic stone, metal, steel, aluminium, wood, ceramic tiles, rigid plastics etc.

Substrate

Air and substrate temperatures must be +5 °C or higher and must remain so for a minimum of 24 hours. All surfaces must be perfectly clean, dry and free from dust and grease. Clean, porous, absorbent substrates require no primer. Use KÖSTER PU Primer 120 for non-porous (non-absorbing) surfaces like glazed tiles, rigid plastics and aluminium.

Application

KÖSTER PU-Flex 25 is installed with the KÖSTER Special Caulking Gun without attachments, or directly applied to the prepared surface. In the case of parallel joint flanks such as dilation joints, the joint depth must be limited in depth by a commercially available closed-cell round cord. Three flank adhesion must be avoided. Joint widths up to 10 mm are filled in the width / height ratio 1:1, from 10 to 30 mm with a ratio of 2:1.

For critical substrates or unknown materials it is recommended to carry out adhesive pull-off tests prior to installation. If the substrate has a layer which may not be removed (eg coatings), adhesion and compatibility tests must be carried out in advance.

Consumption

Approx. 1.50 kg/lt void
(20 tubular bags in a box)
Consumption:
5 mm x 5 mm : 24 m per foil-bag
10 mm x 10 mm : 12 m per foil-bag
15 mm x 15 mm : 5.3 m per foil-bag

Cleaning

Clean tools with KÖSTER PUR Cleaner after use. Do not allow material to cure on tools.

Packaging

J 235 600 900 g in 600 ml foilbags

Storage

KÖSTER PU-Flex 25 must be stored in original containers and under dry condition at + 5 °C to + 25 °C. Under these conditions shelf life is a minimum of 18 months.

Safety

Contains isocyanates. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye / face protection. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Material Safety Data Sheet.

Other

- Do not apply below + 5 °C or if temperatures below + 5°C are expected within 24 hours.
- Do not apply on wet or frozen surfaces.

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.

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Waterproofing Systems

- Do not apply on dusting or weak surfaces. If in doubt, perform adhesion test.
- Cold temperatures lengthen and hot temperatures shorten curing time of material.
- A dew point difference of at least +3 ° C must be maintained during and for at least 12 hours after the application has been carried out.

Related products

KÖSTER PU Primer 120	Prod. code J 138 250
KÖSTER Special Caulking Gun without extensions	Prod. code J 983

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