KALEA

Material data sheet

Product features

KALEA is an elastomer system - which can be applied by injection moulding - for the protection against abrasive wear. KALEA is especially suitable for slide promotion.

KALEA is suitable for jointless lining of complex geometric shapes and for large-area plant components.

KALEA can be applied to most metallic, mineral, ceramic and organic subsurfaces - even overhead.

Quality features

KALEA is made with the aim of achieving best possible wear resistance and slide promoting. KALEA is elastic and very resistant against most varying chemicals.

Product properties

Feature	Unit	Data
Density	g/cm³	1,1
	lb/ft³	69
Hardness	Shore D	62
Mechanically loadable after	minutes (at 20 °C / 68 °F)	30
End hardness	days	2
Layer thickness	mm	2 … 20
	ft in	0' 0-01/16" to 0' 0-13/16"
Max. application temperature	°C	130
	°F	266

Due to the manufacturing process, it is not possible to exclude small variations in the properties of the product. These are, for example, tolerances with respect to dimensions, outer appearance, and surface.

Approximate figures are given for all technical data. They are based on assessment of tests on specific samples and cannot be considered as a guarantee for which Kalenborn would have to assume legal responsibility.
Subject to technical changes and errors.

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Product description

For rapidly applying a thin, jointless coating to large surfaces or pipes, Kalenborn offers KALEA, a sprayable material with its own application technology.
Kalea is a two component Polyurea spray elastomer system designed for applications in the industrial market. Due to the intrinsic characteristics of the Polyurea components and the particular composition of the isocyanate component, the polymer shows a high reactivity and as a consequence, a high level of resistance to temperature and humidity in application. The product cures rapidly and application thickness up to ½ inch can easily be achieved

Installation

Preparation of metallic surfaces
The surface shall be clean and dry. Sand blasting SA 2.5. Primer to be applied additionally, if necessary.

Preparation of mineral, ceramic, organic surfaces (e.g. rubber or foamed material) The surface shall be clean and dry. If necessary, application of primer required.

Preparations

Ambient temperature	10 °C ... 30 °C / 50 °F … 86 °F
Product and component temperature	10 °C ... 30 °C / 50 °F … 86 °F

Note:
Use and handling of KALEA requires particular care. The information given in the safety datas sheets shall be definitely observed.

Working

KALEA is sprayed on the surface to be lined by the Kalenborn coating machine by qualified personnel.

Advantages

KALEA offers a wide range of application possibilities. Due to the product properties, KALEA achieves best possible wear resistance and slide promotion. The KALEA lined surface is jointless and resistant to various chemicals.

Application examples

- Bunkers
- Channels
- Chutes
- Cyclones
- Deflection hoods
- Dust collecting channels
- Gas cleaning systems
- Hoppers
- Hydraulic conveying systems
- Pipes / bends
- Pneumatic conveying systems
- Separators
- Silos
- Tanks
- Troughs

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Complete Immersion at Room Temperature for 168h	Rating
HCl 37%	NR
H2SO4 30%	R
H2SO4 96%	NR
HNO3 40%	NR
CH3COOH 100%	NR
Citric Acid 1%	R
H2O2 30%	C
NaOH 60%	R
NH3 28%	R
Sodium Carbonate Solution (20%)	R
Soap Solution (1%)	R
Demineralized Water	R
NaCl Solution/Salt Brine (27-30%)	R
Detergent Solution	R
Dimethylformamide	NR
Ethyl Acetate	NR
Acetone	C
Methylethylketone	NR
Toluene	NR
Mineral Oil	R
Benzene	NR
Ethanol	NR
Methanol	NR
Tetrahydrofuran	NR
Diesel Fuel	C

Rating: **R:** **Recommended (no damage)**
C: **Caution (some discoloration, deformation, swelling or cracking**
NR: **Not Recommended#**

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