

GENERAL DESCRIPTION: Creacase C-123 is a two-component, highly reactive, flexible hybrid polyurea based spray coating.

Application Areas

- Roofs
- Terraces
- Industrial surfaces
- Roads
- Parking Lots
- Pipes
- Car bedliners
- Pools

General Properties

- Fast curing
- Seamless coating application
- Application on vertical surfaces
- High mechanical strength
- Chemical resistance
- Corrosion resistance
- Abrasion resistance
- Environmentally friendly (VOC free)

COMPONENTS:

Component	Product Name	Descriptions
Polimix	Creacase C-123	Polyamine compound
Prepolymer	Creacase CI-05	Isocyanate prepolymer

PHYSICAL AND CHEMICAL PROPERTIES OF COMPONENTS:

Parameter	Unit	Creanate CI-05	Creacase C-123	Test method
Density (25°C)	g/cm ³	1.10-1.12	1.01-1.03	DIN 51757
Viscosity (25°C)	mPa.s	500-750	500-750	ASTM D 4878
Solid Content	%	100	100	Internal Flokser Method

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REACTION CHARACTERISTICS:	Control Characteristic	Unit	Value	Test method
	Gel time	sec	8-10	Internal Flokser Method
	Tack Free Time	sec	17-20	Internal Flokser Method

COMPONENT RATIOS:	Component	Product Name	Unit	Value
	Polyamine	Creacase C-123	By weight	100
			By volume	100
	Isocyanate	Creanate CI-05	By weight	110
	Prepolymer		By volume	100

PHYSICAL AND MECHANICAL PROPERTIES OF PRODUCTS:	Parameter	Unit	Value	Test method
	Hardness	Shore A	85-95	DIN 53505
	Tear resistance	N/mm	15-30	ASTM D 624
	Elongation at break	%	400-500	ASTM D 412
	Tensile strength at break	N/mm ²	10-15	ASTM D 412

CHEMICAL RESISTANCE

Creacase C-123/Test Medium	Result
Water (%100)	+
2,2,4 Trimethylpentane (%99,8)	+
Ethyl acetate(%99.5)	+
Acetone(%99.5)	+
Acetic acid(%5)	-
Citric acid(%1)	-
Hydrochloric acid(%10)	-
Phosphoric acid (%10)	+
Lactic acid (%90)	+
Sulphuric acid (%30)	-
Stearic acid (%50)	+
Hydrogen peroxide (%3)	+

Creacase C-123/Test Medium	Result
Ethyl alcohol (%95)	+
Isopropyl alcohol (%96)	+
Petrol	+
Bleach (%3)	+
Sodium carbonate (%20)	+
Sodium chloride (%10)	+
Heptane (%97)	+
Hexane (%98)	+
Fertilizer	+
Diesel fuel	+
H ₂ O/sugar	+
H ₂ O/ acetum 95/5	+

Creacase C-123/Test Medium	Result
Ammonium hydroxide (%10)	+
Brake fluid	+
Methanol (%99)	+
Butanone (%99.9)	+
NaOH (%60)	+
Olive oil	+
Propylene carbonate (%99.5)	+
Solid bicarbonate of soda (%0.5)	+
Sodium triphosphate (%100)	+
Anionic surfactant	+
Toluene(%99.5)	+
Xylene (%99)	+

+ Resistant
 - Not Recommended

In the test carried out according to the ASTM D 543 standard, 3 separate pieces from the sample are cut in the dimensions specified and kept in the specified chemicals according to the demand for 7 days. Samples are gently shaken every 24 hours. Before and after testing, the weight, size, mechanical and physical properties of the samples are observed and recorded to observe the change.

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PROCESS
CONDITIONS:

Creacase C-123 (polymix) and the Creanate CI-05 (prepolymer) should be applied using high pressure and temperature spray equipment in order to ensure homogeneous mixture and application. Prior to the application, surfaces must be free from dust, dirt, oil and similar residues that will prevent the material adhesion.

The application temperature should be between 70-80°C, and the application pressure should be between 120 and 200 bar.

Consumption: For 1 mm thickness polyurea coating 1,1-1,2 kg/m²

HANDLING
AND STORAGE
CONDITIONS:

Storage: Creacase C-123 and Creanate CI-05 is sensitive to moisture and should therefore be stored in sealed packages.

Shelf life: Creacase C-123 Creanate CI-05 can be stored for 12 months in its original sealed packaging at approximately 25°C. Storage at high temperatures shorten the shelf life.

Packaging: Creacase C-123: Available in 200 kg drum

Creanate CI-05: Available in 220 kg drum

NOTICE
REGARDING
SAFETY AND
USAGE:

Material Safety Data Sheet (MSDS) will be provided to you by **FLOKSER CHEMISTRY** sales representative during the product supply. It is advisable to review this form before handling and use and also to check your own handling, safety and process conditions. It is necessary to dispose of the finished product drums according to MSDS. **FLOKSER CHEMISTRY** commits protecting human health and the environment during the production conditions and customer conditions. So **FLOKSER CHEMISTRY** is always ready to help its customers in this regard. Please contact to your **FLOKSER CHEMISTRY** representative when you need help.

CONTACT
INFORMATION:

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