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TECHNICAL DATA SHEET

Creacase C-221

PRODUCT DESCRIPTION

Creacase C-221 is a two-component, highly reactive flexible pure polyurea spray coating material formed by the reaction of the isocyanate-based prepolymer and the multi-functional amine mixture.

USAGE 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)

TECHNICAL PROPERTIES

Polyamine : Creacase C-221

Prepolymer : Creanate CI-05

	Unit	Prepolymer	Polymix	Method
Density (25°C)	g/cm ³	1.10-1.12	1.00-1.05	ASTM D 4052
Viscosity (25°C)	cP	500-750	300-750	ASTM D 4878
NCO Content	%	15.0-16.0	-	ASTM D 5155
Solid Content	%	100	100	In house test method

The information provided herein is true and accurate to the best of our research, experience and knowledge. However, in the case of changes in the conditions and application methods, nothing in this bulletin is to be taken as a warranty, and previous trials are recommended. For further information and assistance, service is supplied by our technical staff and laboratories.

	Unit	Value	Method
Gel Time	sec	8-10	In house test method
Tack Free Time	sec	17-20	In house test method
Hardness	Shore A	85-95	DIN 53505
Tear Strength	N/mm	15-30	ASTM D 624
Elongation	%	400-500	ASTM D 412
Tensile Strength	N/mm ²	10-15	ASTM D 412

APPLICATION METHOD

Creacase C-221 (polyamine) 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.

	Unit	Value
Mixture ratio (iso/poly)	By weight	110/100
	By volume	100/100
Process Temperature	°C	70-80
Process Pressure	bar	120-200

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

STORAGE CONDITIONS / SHELF LIFE / PACKAGING

Storage: Creacase C-221 and Creanate CI-05 is sensitive to moisture and should therefore be stored in sealed packages.

Shelf life: Creacase C-221 Creanate CI-05 can be stored for 6 months in its original sealed packaging at approximately 25°C. Storage at high temperatures shorten the shelf life.

Packaging: **Creacase C-221:** Available in 200 kg drum
Creanate CI-05: Available in 220 kg drum

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NOTICE REGARDING SAFETY AND USAGE

Material Safety Data Sheet (MSDS) will be provided to you by **FLY CHEM** 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. **FLY CHEM** commits protecting human health and the environment during the production conditions and customer conditions. So **FLY CHEM** is always ready to help its customers in this regard. Please contact to your **FLY CHEM** representative when you need help.

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