

POLYURETHANE SEAM SEALANT

FOR CLEANROOM WALL PANELS
PRODUCT CODE: R53827

DESCRIPTION

Crane Composites' Seam Sealant sealant is an equal-mix, two-component bright white urethane sealant system used to bond and seal a variety of plastics and prepared metals.

SHELF LIFE/STORAGE

Shelf life is eighteen (18) months from date of shipment when stored in a clean, dry environment at 50-80°F (10-27°C) in original, unopened container. After opening, protect sealant from excessive exposure to moisture by installing desiccant cartridges and/or using dry nitrogen as an inert cover. **DO NOT FREEZE**

COVERAGE AREA

FOR CORNERS, WINDOWS, DOORS AND ANY OTHER NON-INLINE SEAMS:

- Linear Feet: 22 feet per 400 mil cartridge
- Square Feet: 80 SQFT of the panel per a 400 mil cartridge (this is assuming all panels are 4 feet wide)

FOR INLINE/CENTERLINE INLINE/CENTERLINE SEAMS:

- Linear Feet: 55 feet per 400 mil cartridge
- Square Feet: 160 SQFT of the panel per a 400 mil cartridge (this is assuming all panels are 4 feet wide)

CAUTIONARY INFORMATION

Before using this or any Crane Composites product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions. For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

SURFACE PREPARATION

Surfaces should be free of grease, dirt and other contaminants. For plastics, clean the surface with a dry rag or a rag dampened with solvent. For metals, grit blast and solvent wash the surface, then prime for optimum bond performance.

MIXING

Mix resin with the curative at a 1:1 ratio, by volume. Handheld cartridges will automatically dispense the correct volumetric ratio of each component.

APPLYING

Apply sealant using handheld cartridges. Assemble parts within working time of the sealant.

CURING

Sealant will cure to full strength in 24 hours at room temperature, 77°F (25°C).

CLEANUP

Clean equipment and tools prior to the sealant cure with organic solvents such as isopropyl alcohol.

INSTALLATION

Refer to the Cleanroom & Hygienic Wall System Installation Guide (form #7616) Part B for additional information.

SERVICEABLE TEMPS

Serviceable in temperatures from -40°F (-40°C) to 75°F (24°C).

TYPICAL PROPERTIES*

	A RESIN PIN	C CURRATIVE
Appearance	Translucent Paste	White Paste
Viscosity, cP @ 77°F (25°C)	45,000 - 160,000	130,000 - 230,000
Density lb/gal (kg/m ³)	9.64 - 10.04 (1155 - 1203)	9.9 - 10.2 (1186 - 1222)
Flash Point (Closed Cup), °F (°C)	>200 (>93)	>200 (>93)
Calculated VOL	0 g/L	

* Data is typical and not to be used for specification purposes

FEATURES AND BENEFITS

NON-FLAMMABLE | Does not require explosion-proof equipment.

ENVIRONMENTALLY FRIENDLY | VOC compliant; does not contain ozone depleting chemicals.

ENVIRONMENTALLY RESISTANT | Resists sunlight, weathering, humidity and salt spray.

CHEMICALLY RESISTANT | Solvent resistant when cured. Painting and most cleaning processes do not affect bond strength.

NON-SAG | Remains in position when applied on vertical or overhead surfaces, allowing for greater process flexibility.

FAST CURE | Paintable within 10 minutes, reducing set up time and overall process time. Handling strength for bonded assemblies develops within 60 minutes.





TYPICAL PROPERTIES* OF RESIN MIXED WITH CURATIVE	
PROPERTY	VALUE
Mix Ratio by Volume, Resin to Curative	1:1
Solids Content by Weight, %	100
Working Time, min @ 77°F (25°C)	3-5
Purge Time, min @ 77°F (25°C)	2-3
Time to Handling Strength, min 77°F (25°C)	60

* Data is typical and not to be used for specification purposes. Given by 1/2" (12.5 mm) diameter bead.

SEAM SEALANT WORKABILITY TIME

		Temperature (°F)			
		70	80	90	100
Time (Minutes)	1	Workable	Workable	Workable	Workable
	2	Workable	Workable	Workable	Workable
	3	Workable	Workable	Workable	Suspect
	4	Workable	Workable	Suspect	Not Workable
	5	Workable	Suspect	Not Workable	Not Workable
	6	Suspect	Not Workable	Not Workable	Not Workable
	7	Suspect	Not Workable	Not Workable	Not Workable
	8	Not Workable	Not Workable	Not Workable	Not Workable
	9	Not Workable	Not Workable	Not Workable	Not Workable
	10	Not Workable	Not Workable	Not Workable	Not Workable

Workable
Suspect
Not Workable

Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Service at 1.800.435.0080.

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