



# GA-125CS

# TDS

GA-125CS is a 100% solid polyurea with a silicone tail. This enables the polyurea to have superior chemical and heat resistance, lower water absorption, better abrasion resistance and improved weathering. Specially formulated for corrosion control and abrasion resistance in milling and process environment. Although aromatic the silicone tail reduces oxidation when exposed to direct sun light. Light colors will still change but gloss remains. GA-125CS will have less algae build up and reduce marine growth compared to regular polyurea. GA-125CS performs well when exposed to petroleum products such as gasoline with or without ethanol, diesel fuel with or without biofuel added and crude. Conventional polyurea is attacked by the ethanols. GA-125CS requires heated plural spray equipment such as Graco EXP2 using hose heats of 150 – 160F and primary heats the same. Spray pressures using Graco P2 or Fusion gun are to be set at 2000psi. Surface preparation should be the same as regular polyurea that is clean, dry and abraded. GA-125CS can be available in different hardness from 65 shore D to 80 Shore A. Tensile strength and elongation will vary with hardness. Patent Pending.

GA-125CS PHYSICAL PROPERTIES		
Appearance	Visual	Caramel Clear
Flex Modulus	ASTM D790	*100 – 250k psi
Tensile Strength	ASTM D412	*2500 – 3750 psi
Elongation	ASTM D412	*350 – 600 %
Water Absorption (24 hr.)	ASTM D570	0.25 %
Hardness (Shore A)	ASTM D785	*90A – 65D
Abrasion (Taber CS17)	ASTM D4060	<30 mg/1k cycles
Tear Strength	ASTM D624	360 – 690 lbs./lin. in.
Gel Time	Time	*15 – 180 sec.
Mix Ratio	PBV	1A – 1B
<b>*Values Range Relative To Gel-Time Formulation</b>		

Adhesion Results of Typical Substrates per ASTM D-4541 Elcometer		
Concrete – No Primer	>300 psi	Cohesive Failure; Excellent Bonding
Steel – No Primer	>1000 psi	Excellent Bonding
Composite Lamination	>1000 psi	Saturated; Excellent Bonding
<p>In general, for all super polymers, if adhesion to substrate is mandated to facilitate a structurally engineered component all target surfaces must be properly prepped for cleanliness and/or use the appropriate adhesion primer to acquire structural adhesion. Safety wear gear and cleanup materials are always required when performing application. Always refer to MSDS for material and safety standard procedures.</p>		

## TECHNICAL APPLICATION DATA

GA-125CS is a two component 100% solids mixture which does not contain VOCs. Application temperature ranges from 40°F to 100°F. GA-125CS may be applied by a standard 2component spray machine, batch cast, squeegee or roller. GA-125CS is not limited to film thickness. Substrate surfaces must be clean/dry and free of contaminants and dust. Depending on the formulation this 2K mixture may also be designed with a fast reaction time of 15 sec for production spray. Functional operation temperature ranges from 40°F to 250°F with intermittent to 350°F. Longer reaction times promote workability and self-leveling. In its hard formulation it



will set up to a hard translucent hightemp walkon protective finish in 1 hour. Final topcoat application surface is slick and smooth. Spray coverage at 16 mils is 100 sq. ft./ mixed gal.

Preparation of substrate surface prior to the application is extremely important to achieve proper system bonding. Concrete must be fully cured and should be prepared with a sandblasting, diamond grinding or machine sanding depending on the severity of the concrete surface condition. Similar proper preparation must be performed for metals. Primers also require this proper preparation. Always power clean using mild detergent prior to sanding, etc. Call for assistance with selecting Bridgeport Chemical application system. Also read the Application Page on this website. Composites substrates must dry and free of dust before applying GA-125CS as an interlamine bonding matrix material. It is always best to perform a test within a small section of the application area prior to full scale engagement. Please contact our Customer Service and Technical Support Group for any questions and to provide direction with specific selection of BRIDGEPORT CHEMICAL, INC. material system for the application, questionable surface conditions, operational procedures, material dispensing equipment, spray/pour guns, safety protection gear and cleanup kits.

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