

**GlobalStar**

5J.1.K1EU

High Gloss UHS 420

Acrylic Polyurethane

**GlobalStar**  
INDUSTRIAL



EU/ROW082320165J.1.K1EU

## Technical Data Sheet

### Description

5J.1.K1 is a two pack Ultra High Solids high gloss polyurethane topcoat created for painting of all types of substrates on manufactured items, and refinish projects.

### Suggested Uses

As a high performance topcoat over properly prepared primed or sealed substrates and sanded stable coatings, including: Hot and Cold roll steel, Galvanized Steel, Aluminum, fiberglass, plastics and wood where:

- Outstanding Gloss and color retention are desired.
- Outstanding adhesion and flexibility is required.
- Excellent durability and chemical resistance.
- Car finish appearance.
- Excellent DOI and leveling is required.
- Excellent performance when using air-assist airless, pressure pot, cup gun and Roller or brush application.

### Field Applications

- Light to medium industrial equipment
- Recreational boat refinishes
- Construction equipment
- Airport ground support equipment
- Truck and Trailer Refinishing
- Bus and Transit refinish
- Commercial auto and van refinish.

### Components

5J.1. K1

OG.060

OG.013

Base

5J Series Reducer (Preferred option)

Standard Urethane Reducer

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OG.030

OA.H10

Slow Urethane Reducer  
Hardener

### Mixing Ratio

Mix:

Mix three (3) parts base color to one (1) part OA.H10 hardener.  
Reduce 5%-25% with Selected Reducer.

### Pot Life

1.5 hours @ 20° C (68° F)

### Application

Apply:

Spray Gun:

Two medium wet coats, allow 10-20 minutes flash between coats.

HVLP Gravity Feed – 1.4 – 1.6mm tip and needle

Pressure Pot HVLP – 1.0 – 1.1mm tip and needle

Air Assist Airless - 1.0 – 1.1mm tip and needle

Conventional – 1.4 – 1.7mm tip and needle

Airless Not recommended.

Film Build:

60 - 70 microns – (2.5 – 3.0 mils.) when applied as directed.

### Dry Times

Dust Free:

20 - 30 minutes @ 20° C (68° F)

Dry to Touch

3 hours @ 20° C (68° F)

Total Hardness

24 hours @ 20° C (68° F)

Force Dry

30 - 45 minutes @ 60° C (140° F)

Chemical Resistance

Maximum resistance after 7 days

### Surface Preparation

**Ferrous metals:**

Best Case

SA2 sandblast Blow all dust and contaminates off and apply suitable Globalstar primer within 12 hours followed by topcoat.

Second Best Case

Hot Phosphate wash system, blow dry and apply suitable Globalstar primer within 8 hours followed by topcoat.

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Third Best Case

Careful mechanical abrasion. Clean all dust, oil residue, finger prints and contaminants before and after mechanical abrasion with a clean drying wax and grease removal solvent making sure all residue is removed. Apply suitable Globalstar primer within 8 hours, followed by topcoat.

**Aluminum:**

Clean surface with clean drying wax and grease remover. Apply suitable Globalstar Epoxy Primer. Apply topcoat as recommended.

**Galvanized Steel:**

Clean all dust, oil residue, and contaminants from surface using a Clean drying wax and grease remover.  
Light Sanding (320P grit) Clean again with clean drying wax and grease remover using a wipe and dry process.  
Apply Globalstar Epoxy Primer follow by topcoat as recommended.

**VOC**

Regulatory VOC National Rule  
Actual VOC National Rule

420.0 g/l (3.5 lbs./gl.)  
420.0 g/l (3.5 lbs./gl.)  
Product according to 2004/42/CE

**Solids**

By Volume  
By Weight

60% + or - 7%  
65% + or - 10%

**Specific Gravity**

1.10 + or - 0.10 g/cm<sup>3</sup>

**Coverage**

8 to 10m<sup>2</sup> @ 50 to 60 microns

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**Repainting**

After 24 hours @20° C (68° F). Light sand recommended for best adhesion. After force dry recommendations are completed, allow cool down for 1 hours before sand and recoat.

**Storage Stability**

One year for A (base) component, 6 months B (Hardener) Component in closed package, in cool dry place, away from any heat source.

**Heat Resistance**

Once cured 180° C (356° F)

**ASTM Information:**

Test	Results	Test Methods
Abrasion Resistance	Excellent	ASTM D 4060
Adhesion	Excellent	ASTM D 4541 (1850 psi) ASTM D 3359 A/B (5/5)
Salt Spray Resistance	Excellent	ASTM B 117 (Pass 500 hours)
Direct Impact Resistance	Very Good	ASTM D 2794 (35Kg.)
Reverse Impact Resistance	Very Good	ASTM D 2794 (35Kg.)
Humidity Resistance	Excellent	ASTM D 2247 (Pass 1000 hours)
Film Hardness	3H	ASTM D 3363
Chemical Resistance	Very Good to Excellent	ASTM D 1308
(Rating Scale 1-10 with 10 best)	10	1% Sodium Hydrochloric Acid
	10	5% Sodium Hydrochloric Acid
	9	10% Sodium Hydrochloric Acid
	10	Ammonia
	10	Diesel Fuel
	10	1% Hydrochloric Acid
	10	1% Sulfuric Acid
	9	10% Sulfuric Acid
	10	100% Ethanol
	10	1% Phosphoric Acid

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	9	10% Phosphoric Acid
	10	MEK (Methyl Ethyl Ketone)
	10	Gasoline
	9	Skydrol
	9	DOT 3 Break Fluid
QUV A	Excellent	ASTM D 4587 (1000 hours-97%)
Initial Gloss @ 60°	93 min.	ASTM D 523
Solvent Resistance	Surpassed	ASTM D 4752 (1000 MHR)
Flexibility	Excellent	ASTM D 522 Mandrel

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