

GlobalStar

L7.1.K1

High Gloss UHS Polyurethane

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US/10112018L7.1.K1

Technical Data Sheet

Description

L7.1. K1 is a 2K High Solids High Gloss Anti-Sag Urethane Topcoat.

Suggested Uses

As a high performance topcoat over multiple substrates when pre primed with a suitable Globalstar primer 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 chemical resistance is required.
- Low VOC coatings are mandated.
- Excellent anti-sag qualities.
- Excellent performance when using air-assist airless, pressure pot, cup gun.
- Can be used with roller or brush application.

Field Applications

- Heavy industrial equipment
- Oil Field equipment
- Construction equipment
- Aircraft and Marine (above the water line)
- Airport ground support equipment
- Truck and Trailer Refinishing
- Equipment, Truck, Trailer OEM finishing.

Components

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GSR-F, GSR-M, GSR-S

AH.002

Base

Fast, Medium, Slow, Urethane Reducer (National Rule)

Hardener (National Rule)

Mixing Ratio

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Mix:

Mix three (3) parts base color to one (1) part hardener.
Reduce up to 15%-33% with selected suitable reducer.

Pot Life

2 hours @ 20° C (68° F)

Application

Apply:

Two medium wet coats, allow 10-20 minutes flash between coats.
Or apply one medium coat follow by a medium cross coat.

Spray Gun:

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:

75-125 microns – (3.0 – 5.0 mils.) when applied as directed.

Dry Times

Dust Free:

60 minutes @ 20° C (68° F)

Dry to Touch

2-4 hours @ 20° C (68° F)

Total Hardness

24 hours @ 20° C (68° F)

Force Dry

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, followed by topcoat as directed.

Second Best Case

Hot Phosphate wash system, blow dry and apply suitable GlobalStar primer, followed by topcoat as directed.

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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 followed by topcoat as directed.

Aluminum:

Clean surface with clean drying wax and grease remover. Apply GlobalStar Epoxy Primer followed by topcoat.

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 directed.

VOC

Regulatory VOC

470.9 g/l (3.93 lbs./gl.)

Actual VOC

470.9 g/l (3.93 lbs./gl.)

Solids

By Volume

46%

By Weight

52%

Specific Gravity

0.99 kg/l (8.28 lbs./gl.)

Coverage

369.1 square feet per gallon @ 100% transfer efficiency, @ 50 microns (2 mils.).

34.27 square meters per gallon@ 100% transfer efficiency, @ 50 microns (2 mils.).

Repainting

After 24-36 hours @20° C (68° F). Light sand recommended for best adhesion. After force dry recommendations are completed, allow cool down for 2 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.

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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 ASTM D 3359 A/B (5/5)
Salt Spray Resistance	Excellent	ASTM B 117(pass 1500 hrs.)
Direct Impact Resistance	Very Good	ASTM D 2794 (140 in-lbs.)
Reverse Impact Resistance	Very Good	ASTM D 2794 (50 in-lbs.)
Humidity Resistance	Excellent	ASTM D 2247(Pass 1000 hrs.)
Film Hardness	3H	ASTM D 3363
Chemical Resistance (Rating Scale 1-10 with 10 best)	Excellent 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	ASTM D 1308 1% Sodium Hydroxide 5% Sodium Hydroxide 10% Sodium Hydroxide 10% Ammonia Diesel Fuel 1% Hydrochloric Acid 1% Sulfuric Acid 10% Sulfuric Acid 100% Ethanol 1% Phosphoric Acid 10% Phosphoric Acid MEK (Methyl Ethyl Ketone) Gasoline Skydrol DOT 3 Brake Fluid
QUV A	Excellent	ASTM D 4587 (1500 hrs. -97%
Initial Gloss @ 60°	93 min	ASTM D523
Solvent Resistance	Surpassed	ASTM D 4752 (1000 MHR)
Flexibility	Excellent	ASTM D 522 Mandrel

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