

GlobalStar

L4.1.K1

High Gloss Low VOC

Acrylic Polyurethane

GlobalStar
INDUSTRIAL



US/01102022/L4.1.K1

Technical Data Sheet

Description

L4.1.K1 is a high gloss, medium solids Low VOC urethane topcoat created for painting of all types of substrates on manufactured items, and refinish projects.

L4.1.K1 is compliant in all restricted VOC areas and can be used in National Rule areas with National Rule activators and reducers.

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

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Base

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Low VOC areas:

GSOR-F, GSOR-M, GSOR-S -
AV.002 -

Fast, Medium, Slow, Low VOC Urethane Reducers
Hardener

In National Rule Areas:

GSR-F, GSR-M, GSR-S -
AH.002 -

Fast, Medium, Slow National Rule Urethane Reducers
Hardener

Mixing Ratio

Mix:

Mix four (4) parts base color to one (1) part AV.002 or AH.002
hardener. Reduce 10%-20% with Selected Reducer.

Pot Life

Spray Gun:

1.5 hours @ 20° C (68° F)

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.

Application

Apply:

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

Film Build:

50 - 62.5 microns – (2.0 – 2.5 mils.) when applied as directed.

Dry Times

Dust Free:

30 minutes @ 20° C (68° F)

Dry to Touch

1 hours @ 20° C (68° F)

Total Hardness

24 hours @ 20° C (68° F)

Force Dry

40 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

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Second Best Case

GlobalStar primer within 12 hours followed by topcoat as directed.

Hot Phosphate wash system, blow dry and apply GlobalStar primer within 8 hours followed by topcoat as directed.

Third Best Case

Careful mechanical abrasion. Clean all dust, oil residue, finger prints and contaminates 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 as directed.

Galvanized Steel:

Clean all dust, oil residue, and contaminates from surface using a Clean drying wax and grease remover. Light Sanding (320P grit) Clean again with clean drying wax and grease remover ensuring that all residue is removed. Apply GlobalStar Epoxy Primer followed by topcoat as directed.

VOC

Regulatory VOC

255.9 g/l (1.88 lbs./gl.)

Actual VOC

314.4 g/l (2.62 lbs./gl.)

Solids

By Volume

48.41%

By Weight

49.87%

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Specific Gravity

1.08 kg/l (9.04 lbs./gl.)

Coverage

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

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

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 1500 hours)

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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 hours)
Film Hardness	3H	ASTM D 3363
Chemical Resistance (Rating Scale 1-10 with 10 best)	Very Good to Excellent	ASTM D 1308
	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
	9	10% Phosphoric Acid
	10	MEK (Methyl Ethyl Ketone)
	10	Gasoline
	9	Skydrol
	9	DOT 3 Break Fluid
QUV A	Excellent	ASTM D 4587 (1500 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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