

GlobalStar

6H.3.K2

Semi Matt

MS Acrylic Polyurethane

EU/ROW082520166H.3.K2

Technical Data Sheet

Description

6H.3.K2 is a two pack medium solids semi matt industrial urethane topcoat created for painting of all types of substrates on manufactured items, and refinish projects. 30-40 gloss 60o. With care and careful surface preparation can be applied DTM on ferrous substrates.

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 color retention are desired.
- Outstanding adhesion and flexibility is required.
- Excellent durability and chemical resistance.
- 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
- Machine tools
- Industrial equipment
- Truck and Trailer Refinishing
- Bus and Transit refinish
- Furniture
- Concrete

Components

6H.3. K1

Base

0G.013

Medium Polyurethane Reducer

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OG.030

OA.014

Slow Polyurethane Reducer
Hardener

Mixing Ratio

Mix:

Mix four (4) parts base color to one (1) part OA.014 hardener.
Reduce with Selected Reducer 15%

Pot Life

4 hours @ 20° C (68° F)

Application

Apply:

Two medium wet coats, allow 10-20 minutes flash between coats,
or one 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
Can be brushed on small areas.

Film Build:

40-50 microns – when applied as directed.

Dry Times

Dust Free:

20 - 30 minutes @ 20° C (68° F)

Dry to Touch

6 - 7 hours @ 20° C (68° F)

Total Hardness

24 - 36 hours @ 20° C (68° F)

Force Dry

30 - 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
suitable GlobalStar primer, topcoat as directed.

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Second Best Case

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

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, topcoat as directed. As noted, can be applied DTM on ferrous substrates with careful preparation.

Aluminum:

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

VOC

Regulatory VOC National Rule	580 g/l
Actual VOC National Rule	580 g/l

Solids

By Volume	40%
By Weight	60%

Specific Gravity

1.25 kg/l

Coverage

8m² / Kg (theoretical)

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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 1500 hours)
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

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	9	Skydrol
	9	DOT 3 Break Fluid
<u>QUV A</u>	<u>Excellent</u>	<u>ASTM D 4587 (1500 hours-97%)</u>
<u>Initial Gloss @ 60°</u>	<u>93 min.</u>	<u>ASTM D 523</u>
<u>Solvent Resistance</u>	<u>Surpassed</u>	<u>ASTM D 4752 (1000 MHR)</u>
<u>Flexibility</u>	<u>Excellent</u>	<u>ASTM D 522 Mandrel</u>

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