

DELTA® Medium Solids Polyurethane

DSS

Delta® DSS is a fast drying, single stage, medium-solids polyurethane designed to provide outstanding productivity in non-VOC regulated fleet refinishing operations. DSS is out of dust in as little as 30 minutes, and quickly cures to a tough, high gloss finish that withstands severe fleet operating conditions. Choice of catalysts and available accelerator make DSS adaptable to shop conditions. DSS is available in a wide range of solid, metallic, OEM and custom colors. DSS metallics apply evenly without additional cross-coating for metallic pattern control. DSS is produced using high strength DMHS universal mixing toners and DMHS597 converter.

Features	Advantages	Benefits
<ul style="list-style-type: none"> • Fast air dry • Excellent gloss and leveling • Excellent film properties 	<ul style="list-style-type: none"> • Speeds assembly and delivery • Painter friendly • Withstands severe environments 	<ul style="list-style-type: none"> • Better shop productivity • Outstanding final appearance • Longer repaint cycles

Compatible Surfaces

Delta® DSS may be applied over:

- DX1793 Chrome Free Self Etching Primer
- DPHS52 Low VOC Primer
- DPU174 High Solids Polyurethane Primer
- DPU166 High Solids Chromate Primer 2.8 VOC Max
- OEM Enamels
- Cured Air Dry Finishes

If sanding prior to the application of DSS, use 240-600 grit wet or dry

DRS Reducers	
Reducer - Fast (60-70°F)	DRS1460
Reducer - Medium (65-80°F)	DRS1470
Reducer - Slow (75-90°F)	DRS1485
Reducer - Hot Temperature (85°F and above)	DRS1495
Retarder/Reducer	DRS1498
Hardeners	
Urethane Hardener	DDH525
Urethane Hardener	DDH526



APPLICATION GUIDE

DSS

Mixing Ratio:



DSS : DRS Reducer* : DDH525 or DDH526

2 parts : 1 part : 1 part

*Reduce with DRS1460, DRS1470, DRS1485, DRS1495 Reducer, best suited to shop temperatures.

Pot life:



6 hours @ 70°F and 50% RH
(High heat and humidity will shorten pot life)

Additives:



Accelerator: DX39 up to 6 oz./RTS/gal.*
 Extender: DX53 up to 6 oz./RTS/gal.*
 Fisheye: No Recommendation
 Flex: No Recommendation
 Flattening: DX595 (See Flattening Ratio)
 *DX39 and DX53 may be blended to extend pot life and should not exceed 6 oz.

**Flattening Ratio:
(60° Gloss Meter)**

PARTS BY VOLUME

<u>Gloss Range</u>	<u>DSS Color</u>	<u>DX595</u>	<u>DDH525 or DDH526</u>
Low Gloss 10-20	3 parts	3 parts	1 part
Semi Gloss 40-65	3 parts	1/4 part	1 part

Pot Life 6 hours @ 70°F and 50% RH

Spraygun set-up:



Fluid Tip
 1.0 - 1.4 mm for Pressure Feed/HVLP
 1.3 - 1.7 mm for Conventional Feed/HVLP

Air Pressure
 HVLP at air cap 10 PSI
 Conventional at spray gun 45-60 PSI

Consult the Fleet Training Manual Spray Equipment Section for gun set-up requirements.

Minimum number of coats:



2 coats or until hiding is achieved

Total film build per coat:

	Wet	Dry
Minimum	1.5 mils	.6 mils
Maximum	2.0 mils	.8 mils

Flash Time at 70°F:



Between coats 10-15 minutes
 Before force drying 10 minutes

Drying times:**Air Dry @ 70°F
Without DX39**

Dust 1 hour
Tack 2 hours
Tape 22 hours

**Air Dry @ 70°F
With DX39**

Dust 35 min.
Tack 45 min.
Tape 4 hours

Force Dry**

Flash 10 min.
30 min. @ 120°F
15 min. @ 180°F

*** Force drying times are for quoted surface temperature.
Additional time should be allowed in the force drying schedule to
allow surface to reach recommended temperature.*

Recoat time:

10 minutes minimum dry and up to 24 hours maximum at 70°F
before sanding is required.

Repair time:

8 hours @ 70°F Air Dry
30 minutes after force dried/cool down period.

Polish:

24 hours @ 70°F

Optional Clearcoating:

Minimum dry 2 hours @ 70°F up to 24 hours. After
24 hours, sanding is required.

TEST PROPERTIES

Package VOC Actual	2.34-3.56 lbs/gal (280-427 g/l)
Package VOC Regulatory (Less Water Less Exempts)	2.34-3.56 lbs/gal (280-427 g/l)
2:1:1 RTS VOC Regulatory (Less Water Less Exempts)	3.85-4.46 lbs/gal (461-534 g/l)
2:1:1 + 6 oz RTS VOC Regulatory (Less Water Less Exempts)	4.04-4.64 lbs/gal (484 - 556 g/l)
Low Gloss 3:3:1 RTS VOC Regulatory (Less Water Less Exempts) w/DX595	2.48-3.63 lbs/gal (297-435 g/l)
Semi-Gloss 3:1/4:1 RTS VOC Regulatory (Less Water Less Exempts) w/DX595	2.62-3.54 lbs/gal (314-424 g/l)
Volume Solids (RTS)	45% (Avg.)
Square Foot Coverage (RTS US Gallon 100% Transfer Efficiency)	721 sq. ft. (Avg.)
Gloss (20 degree)	85.2%
Gloss Retention (1000 hrs. QUV)	85.7
Pencil Hardness *	H

* Film properties, including pencil hardness are given where ultimate air cure is reached, usually 7 days.

See Material Safety Data Sheet and Labels for additional safety information and handling instructions

Emergency Medical or Spill Control Information (412) 434-4515; In Canada (514) 645-1320

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