



Spredox D-147
solvent-based coating for TiO_2 and
matting agent

Product description

- ▶ Spredox D-147 is a 50-55% active content dispersant for grinding inorganic pigment in solvent-based system.

Appearance:	Yellowish liquid
Solid content:	50-55%
Acid value:	19-23 mg KOH/g
Specific gravity:	0.94-0.99 g/cm ³
Solvent:	Xylene/Propylene glycol methyl ether acetate

TiO2 dispersion test

Automotive Refinish paste formulations

White paste	Percentage (%)
Dispersion (100%)	1.1%
Xylene/N-butyl acetate	28.9%
Resin (FX-2060A)	33.3%
TR-81	36.7%
Total	100.0%

Red paste	Percentage(%)
Dispersion (100%)	4.32%
Xylene/N-butyl acetate	33.68%
Resin (FX-2060A)	50%
Red 254	12%
Total	100.0%

- Experimental Materials
- Resin: FX-2060A Elementis • Deuchem
- Pigments: TR-81, Huntsman
Red 254, Asiafine
- Mixing ratio:
Red and White paste ratio 1/16

Sprayed on metal (Film thickness 100 μ m)

	L*	a*	b*	Strength	Gloss
Competitor Grade B	96.18	-0.56	1.42	100.00	107.30
Competitor Grade E	95.90	-0.65	1.03	113.70	108.20
D-141	95.96	-0.61	1.19	110.86	112.70
D-147	96.04	-0.61	1.31	107.22	111.10

Storage stability (Room temp. for 5 days)



Competitor Grade B

Competitor Grade E

D-141

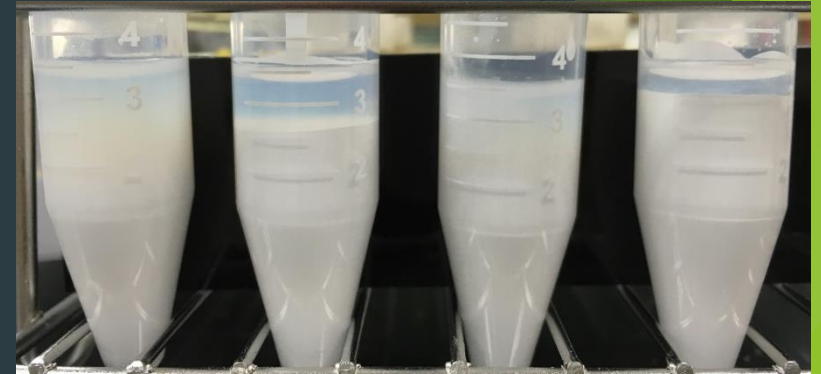
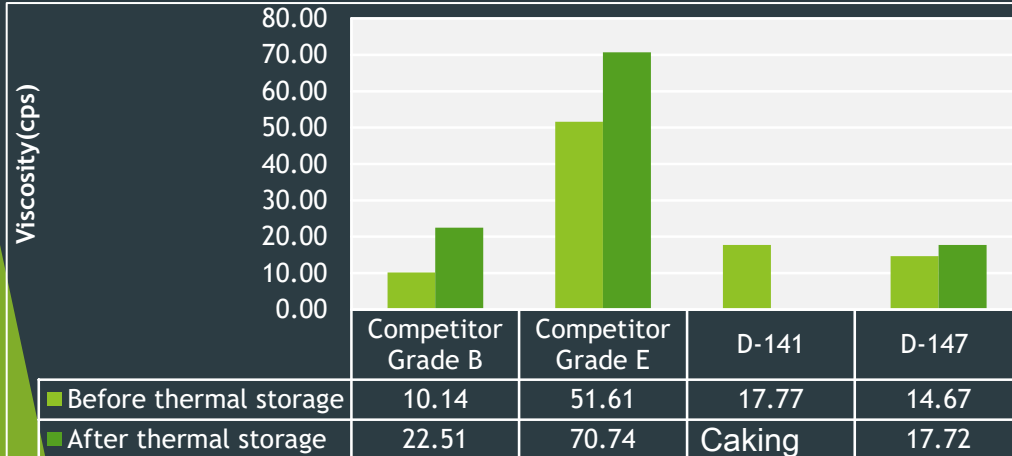
D-147

White paste formulation	Percentage(%)
Dispersion (100%)	1.65%
Propylene glycol methyl ether acetate	43.35%
TR-81	55.00%
Total	100.0%

Resin-free paste formulation

Sedimentation (volume percentage)

Room temp. for 5 days



Competitor Grade B	Competitor Grade E	D-141	D-147
41%	26%	26%	12%

Matting agent dispersion test

Extinction paste formulation	Percentage(%)
Dispersion (100%)	2%
Propylene glycol methyl ether acetate	88%
Matting (BS-50)	10%
Total	100.0%

Resin-free slurry formulation

Matting agent: BS-50, Asiafine Chinese

Sedimentation

(Room temp. for 5 days)

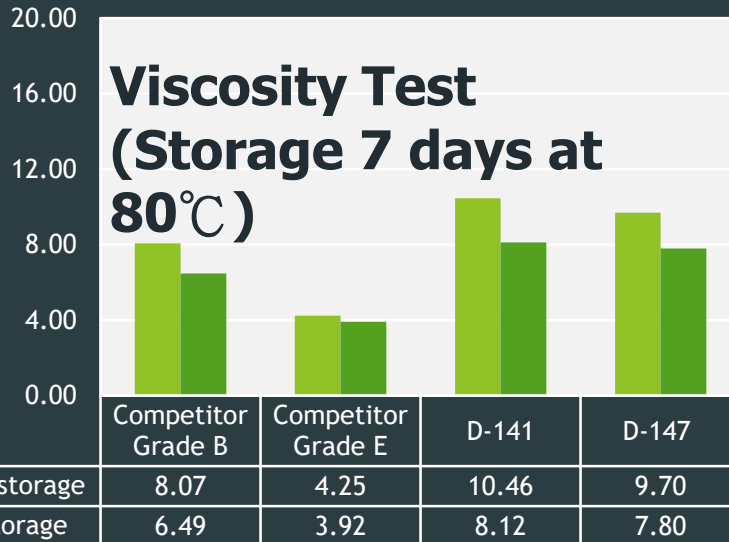


Competitor Grade B

Competitor Grade E

D-141

D-147



Viscosity(cps)

Wood coating formulation

Matting paste formulation	Percentage (%)
Dispersion (100%)	1%
Propylene glycol methyl ether acetate	44%
Matting powder(BS-50)	5%
Resin (NC 2002)	50%
Total	100.0%

