

H&I Chemicals Ltd

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SALES SPECIFICATION

URETHANE ALKYD RESIN SMK 5450-D40

SMK-5450 is a Urethane modified long oil alkyd resin composed of soybean oil.

Composition

Oil Type:	Soybean Oil
Oil Length:	~62 %
Solvent:	D40
Appearance:	Clear

Test	Range	Method
Non-Volatile:	55±2 %	ISO 3251
Viscosity (23°C) Pa.s (70%):	1 – 3	ISO 3219
Acid Value (mg KOH/g):	2 Max	ISO 2114
Colour (Gardner):	6 Max	ISO 4630-2
Density (gcm ³):	0.93 ± 0.02	ISO 2811-1

Solvent Solubility

Toluene:	✓
Xylene:	✓
D40:	✓
n-Butanol:	X
Methyl Ethyl Ketones:	✓
Glycol Ethers:	✓

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Resin Type Compatibility

Rosin Esters:	X
Amino Resins:	X
Short Oil Alkyds:	X
Medium Oil Alkyds:	✓
Long Oil Alkyds:	✓
Aliphatic Hardeners:	✓
Aromatic Hardeners:	✓
Cellulosic Resin:	X
Phenolic Resin:	X

Recommended Drier Combinations:

Cobalt:	0.04 – 0.06 %
Zirconium:	0.05 – 0.07 %
Calcium:	0.08 – 0.10 %

(As metals in relation to 100% resin)