

UNITHANE 458W

Modified Alkyd Resin

Product Information	UNITHANE 458W is a polyurethane resin that is designed to produce fast drying coatings of excellent abrasion resistance.	
Sales Specification	Non-volatile content, % (ISO 3251, 1h, 125°C)	54 – 56
	Viscosity at 25°C, Gardner Holdt (DIN 53 015)	X – Z
	Colour, Gardner scale (ASTM D1544)	Max. 6
	Acid value, mg KOH/g (ASTM 3682)	Max. 3
Other Properties	Volatile	White Spirit
	Density at 25°C, g/cm ³ (ISO 2811)	0.91
	Type of oil / fatty acid	Soy Bean Oil

Noted: Acid value quoted relative to solid resin

Recommendations for Use

UNITHANE 458W is recommended for uses in applications such as floor varnish, furniture sealers and coatings, and pigmented coatings for hostile environments typified by breweries and food processing plants. It also finds general use in combination with alkyds in decorative paints where it speeds drying up and improves hardness and chip resistance.

Suitable drier for general use are a combination of Cobalt and Zirconium to give 0.05% and 0.15% respectively when expressed as metal on solid resin. Addition of up to 0.2% of calcium drier metal on solid resin will reduce drier absorption on storage in pigmented coatings.

When **UNITHANE 458W** is required to give maximum drying speed and abrasion resistance it should be used alone. Where it is employed with alkyds to speed drying under adverse weather conditions or to produce harder coatings then it can be blended with a long oil alkyd to give 20 - 40% of **UNITHANE 458W** based on solid resin. A suitable anti-skinning agent is methyl ethyl ketoxime at the level of 0.10% to total paint.

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Recommendations for Use

Solubility

Aromatic hydrocarbon	Complete
Aliphatic hydrocarbon	Complete
Ester	Complete
Ketone	Complete
Alcohol	Partial

Compatibility

Long Oil Alkyd	Very Good
Oleo-resinous Varnish	Good
Medium Oil Alkyd	Fair

Precautions for Use

Please refer to corresponding Safety Data Sheet.

Storage Recommendations

UNITHANE 458W should be stored under shelter in the original containers at temperature not exceeding 35°C. Avoid exposure to direct sunlight.

Shelf Life

Under the above mentioned storage conditions the shelf life of the resin will be 12 months.



The world is our inspiration

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Version: 00 / November 2011