

DSM NeoResins

Technical Information

Uradil XP 7600 AZ

Uradil XP 7600 AZ is a water based alkyd emulsion. It can be formulated at low VOC levels (< 50 g/L) while maintaining gloss and application properties very similar to that of a solvent-borne alkyd paint.

Uradil XP 7600 AZ is typically used for interior / exterior primers and topcoats for wood and metals and corrosion resistant primers.

Key Benefits

- Formulations to <50 g/L VOC
- High gloss capabilities
- Self-coalescing at room temperature
- Less yellowing than conventional alkyd resins
- Quick dry time – dry to touch in < 45 minutes

Typical Properties

Appearance	Milky-white liquid
Total solids, by weight %	53.0% (in water)
pH	7.0 – 9.0
Brookfield Viscosity (sp 3, 60 rpm), cps	1580 cps
Weight per gallon, 25°C, as supplied, lbs	9.0
Volatile Organic Compounds	40 g/L
MFFT, °C	5°C
Oil Length	Approximately 40%
Type of fatty acid	Soya bean

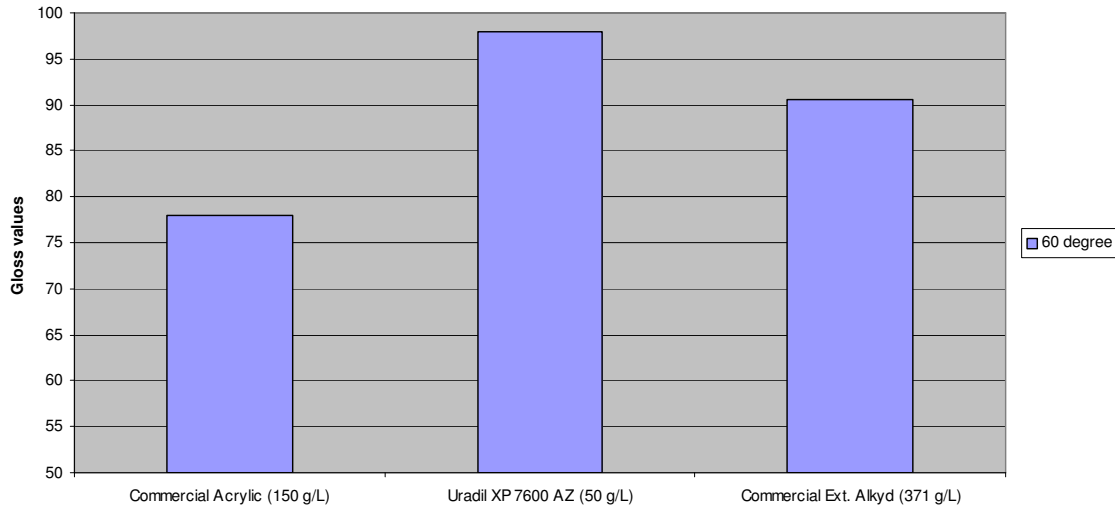
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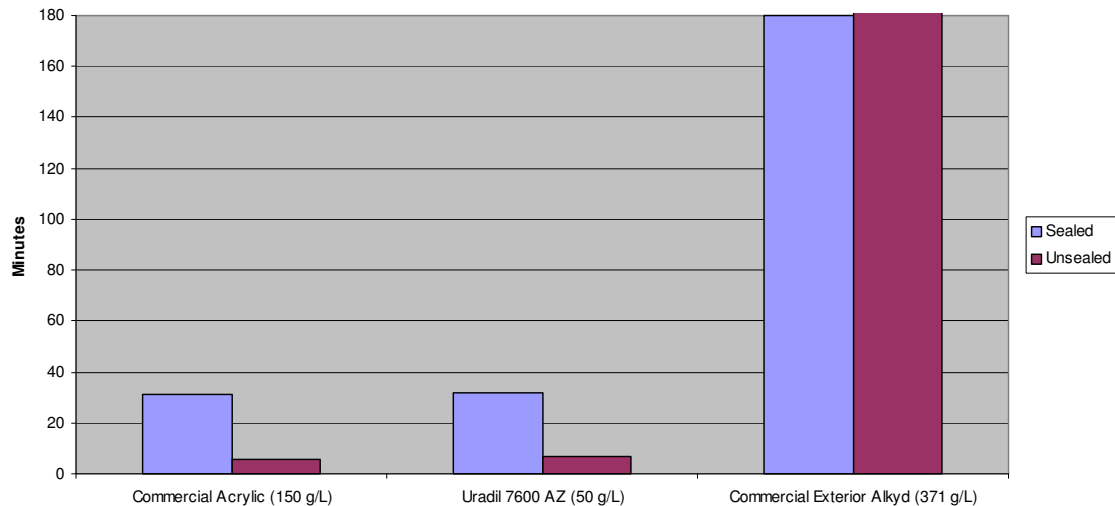
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Key Performance Properties

Gloss Comparison at 60 degrees



Dry to Touch - 6 mil Bird, Leneta 19BR



Data was collected using starting point formulation WB-4191 Interior/Exterior High Gloss Enamel (<50 g/L VOC).

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DSM NeoResins Inc. 730 Main Street, Wilmington, MA 01887-3386, USA Tel (800) 225-0947 Fax: (978) 657 7978 Internet www.dsmneoresins.com
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Formulating Suggestions

Dispersants

Disperbyk 190 is recommended with Uradil XP 7600 AZ. Good heat age stability has been demonstrated using the Disperbyk product at 3% on resin weight.

Rheology Modifiers

Acrysol RM-12W and Acrysol RM-2020NPR urethane associative thickeners are recommended to achieve optimum rheological properties. Acrysol RM-2020NPR at a level of 50 – 65 lbs per 100 gallons will provide adequate ICI viscosity to impart the brush/drag of an alkyd paint. Acrysol RM-12W can be used at lower levels to achieve desired KU viscosity, typically at 4-6 lbs per 100 gallons.

Defoamers

Good anti-foam protection has been found by using BYK 028 at 1 lb per 100 gallons in the grind portion and 0.5 – 1 lb in the letdown portion.

Pigments

High gloss grades of TiO₂ have been used successfully with Uradil XP 7600 AZ to achieve optimum gloss. Ti-Pure R706 is recommended.

Driers

For proper drying characteristics, Additol VXW 4940 is recommended for use at a level of 2 - 3 %, calculated on solid binder.

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Raw Material Suppliers

Material

Supplier

BYK 028
Disperbyk 190

BYK-Chemie, USA
(203) 265-2086

Ti-Pure R706

Dupont
(800) 441-9485

Acrysol RM-2020 NPR
Acrysol RM-12W

Rohm and Haas Company
(215) 592-3000

Additol VXW 4940

Cytec Surface Specialties
(800) 433-2873

Tint Ayd WD 2018

Elementis Specialties
(800) 866-6800

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Additional Information

Storage guidelines

The resin should be stored indoors in the original, unopened and undamaged containers in a dry place at storage temperatures between 5°C and 30°C. Exposure to direct sunlight should be avoided.

Shelf life

Under the above mentioned storage conditions the shelf life of the resin will be 6 months.

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FOR YOUR PROTECTION

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