

# Product Data Sheet

## NeoPac™ PU480

NeoPac™ PU480 is a special alkyd / aliphatic polyurethane copolymer in water. NeoPac™ PU480 offers strong resistance properties and combines high gloss with exterior durability. Its drying properties make NeoPac™ PU480 suitable for low VOC fast drying decorative paint and stain systems and light industrial metal coatings.

Delivery form: 42 % solids in water.

### Product characteristics

Weight per gallon - ± 8.68 lbs.  
25°C, as supplied,  
VOC, g/l - ± 41 g/L  
Heat stability - Satisfactory  
one month, 52°C  
Freeze/thaw stability - None

### Film properties/ Key Benefits

- Gloss Level
- Blocking Resistance
- Film Hardness
- Chemical Resistance
- Exterior Durability

### Product specifications

Property	Range	Unit	GAP
Appearance	Milky white liquid		0059
Total solids w/w	41.0 - 43.0	%	0001
pH	7.3 - 8.5		0016
Visc. Brookfield 25°C	100 - 500	mPa.s	0020

### Other product data

Property	Value	Unit	GAP
MFFT	0	°C	0011
Tg	± 0	°C	1140
VOC (theoretical)	± 3.529	%	
Preservative	GAP 0222	Value	Unit
2-methyl-3-(2H)-isothiazolin-3-one (MIT)	± 0.005	%	%
1,2-benzisothiazolin-3-one (BIT)	± 0.005	%	%

### Test methods

Test methods (GAP) referred to in the table(s) are available on request.

### Storage guidelines

The resin should be stored indoors in original, unopened, undamaged container in a dry place at storage temperature between 5- 30 °C. Exposure to direct sunlight should be avoided.

### Shelf life

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

### Material safety

A Material Safety Data Sheet for this product is available on request.

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### Chemical Resistance Testing

Using a 3 mil Bird type applicator, a draw down was made on Leneta chart 7B, and allowed to dry for 7 days at constant temperature and humidity.

	Immediate	1 hour recovery
Windex	10	10
Formula 409	7	10
Water	10	10
Black coffee	10	10
Black tea	10	10
Mustard	10	10
Ethanol	10	10
Vaseline Intensive Care	10	10
Lubridern Daily Moisture	10	10
Coppertone Water Babies 30 SPF	10	10

Ratings are on softening and swelling of film after 1 hour spot test.

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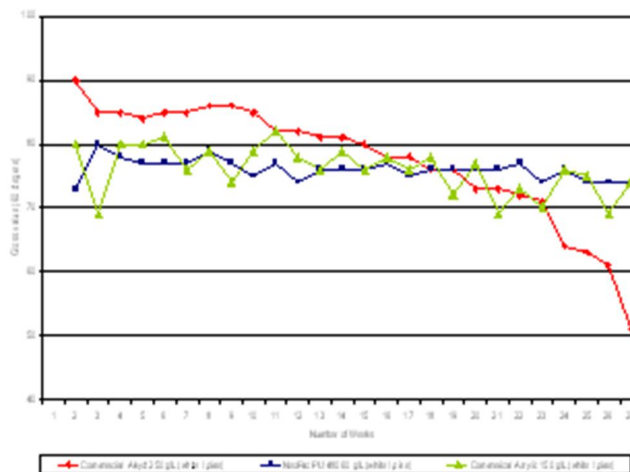
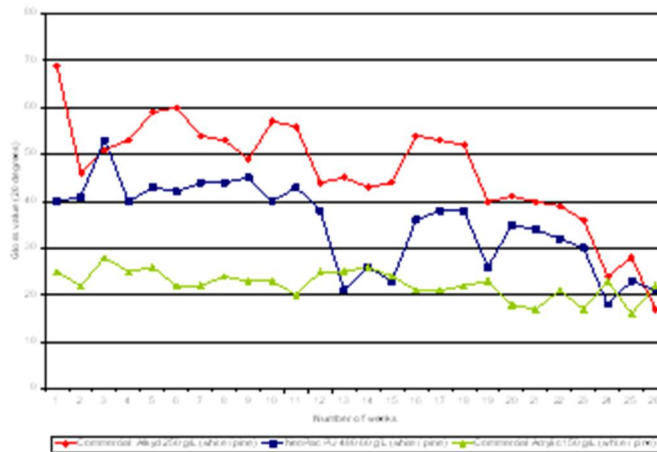
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### Accelerated Exterior Exposure Testing

NeoPac™ PU480 was tested for 27 weeks in EMMAQUA (Arizona) as a white paint on pine wood. Pictures show 20° gloss change and 60° gloss change, respectively.



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### Formulating Suggestions

#### Dispersants

Disperbyk 190 is recommended with NeoPac™ PU480. Good heat age stability has been demonstrated using the Disperbyk product at 3% on resin weight.

#### Rheology Modifiers

Acrysol RM-825 and Acrysol RM-2020 urethane associative thickeners are recommended to achieve optimum rheological properties. Acrysol RM-2020 at a level of 20 - 30 lbs. per 100 gallons will provide adequate ICI viscosity to impart the brush/drag of alkyd paint. Acrysol RM-825 can be used at lower levels to achieve desired KU viscosity, typically at 1-4 lbs. per 100 gallons.

#### Defoamers

Good anti-foam protection has been found by using BYK 024 at 1.0 - 1.5 lbs. per 100 gallons in the grind portion.

#### Driers

For proper drying characteristics, it is recommended to use approximately 0.5% Cobalt (calculated on solid binder) in combination with auxiliary driers, such as Zirconium.

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