

# Product Data Sheet

## NeoAdd™ PAX-521

NeoAdd™ PAX-521 is a low toxicity (non- genotoxic and non-mutagenic), multifunctional polymeric aziridine crosslinker. Additions of 4-8% (wt/wt) to carboxylic acid functional waterborne acrylic emulsions or urethane dispersions produce significant improvements in chemical and mechanical resistance properties such as water, alkali, alcohol and oil resistance as well as scratch and rub resistance levels. NeoAdd™ PAX-521 also enhances adhesion to specific substrates.

### Applications

- NeoAdd™ PAX-521 has been specifically designed for use in waterborne primers, inks and coatings for packaging applications.
- The product is supplied as an 80% solution in ethyl acetate.
- In water-based inks, overprint varnishes, coatings, and adhesives to improve water, alcohol, detergent, chemical and humidity resistance and/or to enhance (wet) adhesion to specific substrates.

### Formulating recommendations

- Add NeoAdd™ PAX-521 slowly to a stirred water-based formulation that should have a pH of preferably >7,5. The crosslinker should disperse easily with no sediment formation. Ease of incorporation can be improved by using a 1:1 (up to 1:5) premix of NeoAdd™ PAX-521 and water.
- Levels of crosslinker may vary between 4-8% (liquid on liquid) and depending on functionality and solids of the polymers in the system.
- The pot life of the mixture depends on the pH of the system but will generally be > 48 hours when the pH >7,5. Pot life will be extended at higher pH levels.
- Crosslinking takes place at room temperature and may take several days to reach ultimate resistances. Speed of crosslinking and property enhancement increase at higher curing temperatures.

Delivery form: 80% solids in ethyl acetate.

### Product specifications

Property	Range	Unit	GAP
Total solids w/w	79-81	%	0001
Visc. Brookfield 25°C	3000-8000	mPa.s	0020
Appearance	Yellow-Brown viscous liquid	-	0059

### Other product data

Property	Value	Unit	GAP
Density 23°C	1,06	kg/L	006
Equivalent weight as supplied	500		

### Test methods

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

### Storage guidelines

The crosslinker should be stored indoors in original, unopened, undamaged container in a dry place at storage temperature between 5-40°C. Exposure to direct sunlight should be avoided.

### Shelf life

Under above mentioned storage conditions, the shelf life of the crosslinker will be 6 months ex works.

### Material safety

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

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