

Product Data Sheet

NeoAdd™ PAX-523

NeoAdd™ PAX-523 is a low toxicity (non-genotoxic and non-mutagenic), multifunctional polymeric aziridine crosslinker for reaction with carboxylic acid functional waterborne acrylic emulsions or urethane dispersions at a use rate of 4-8% (wt/wt).

Applications

- NeoAdd™ PAX-523 is specifically designed for use in waterborne industrial and architectural coating systems where superior performance is required.
- In water-based paints, lacquers, coatings, and adhesives to improve water, alcohol, detergent, chemical and humidity resistance and/or to enhance (wet) adhesion to specific substrates.
- In water-based industrial wood, floor coatings and parquet lacquers to improve chemical resistance and mechanical properties.
- In leather and textile coatings to improve detergent and scuff resistance.

Formulating recommendations

- Add NeoAdd™ PAX-523 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-523 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 usually be >48 hours when 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. Crosslinking and property enhancement increase at higher curing temperatures.

Delivery form: 80% solids in methoxy propyl acetate (PMA).

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	0006
Equivalent weight as supplied	500	gr/eq	-

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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