

# Product Data Sheet



## NeoRez® R-3986 XP

Product ID: 034046

### Characterization

NeoRez® R-3986 XP is an anionic, aliphatic polycarbonate based polyurethane dispersion forming films with high hardness and chemical resistances for use in high performance top coats.

### Form Supplied

31% solids in water and  
n-butyl pyrrolidone (11.75%)

Characteristic data Property	Value	Unit of measurement	Method
Appearance.	Semi translucent grey/yellow liquid		GAP0059
Density at 20°C	1.06	g/cm <sup>3</sup>	GAP-0006
pH	7 - 8.5		GAP0016
Solids	30.0-32.0	%	GAP0001
Viscosity	50-400	mPa·s	GAP0020
VOC	+/- 13.9 (theoretical)	%	

### Properties / Applications

Film properties:

- Hard and abrasion resistant, high gloss
- High film clarity
- Elongation 160%, König hardness 200 sec.
- Water, humidity, solvent and UV-resistant
- Adhesion to plastics such as PVC and PC

Recommendations on formulation and use:

- PVC and non-PVC flooring top coats
- In combination with acrylic emulsions for plastics coatings(e.g. automotive parts, business machines, Hi-fi equipment)
- Suitable as coating on PET film
- Suitable as transfer coatings for metallization processes
- Metal and industrial wood coatings
- Detergent resistant overprint varnishes

### Solubility / Thinnability

Product can be diluted with water.

### Storage

The resin 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.

### Storage Time

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

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