

POLYCUPT™ CROSSLINKING RESINS

North American Product Offering

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Polycup™ brand resins are formaldehyde-free, water-based crosslinking resins that are reactive with amine, carboxyl, hydroxyl, and thiol functionality. Commonly used as crosslinkers in adhesives, inks, top-coatings, and other barrier finishes, these resins promote water resistance in polymer systems that are typically water soluble/sensitive. They also impart toughness to formulations and improve adhesion to low surface energy substrates.

Product	Chemical Type	Typical Properties						Notes
		Percent Solids	Viscosity at 25°C (cps)	pH	SpGr	Shelf Life at 5 - 20°C	DCP Content	
Primarily used for industrial applications.								
Polycup 172	PAE ⁽¹⁾	12.5%	25 - 75	4.0 - 5.5	1.03	90 Days	> 1000 ppm	First choice for most applications.
Polycup 8210	PAE ⁽¹⁾	21%	100 - 200	3.2 - 4.2	1.05	60 Days	> 1000 ppm	Higher reactivity and solids than Polycup 172.
Polycup 5150	PAE ⁽¹⁾	26%	200 - 300	3.0 - 4.0	1.08	60 Days	> 1000 ppm	Similar to Polycup 172, but higher solids.
Polycup 1884	Modified PAE ⁽¹⁾	35%	250 - 500	3.5 - 5.0	1.12	180 Days	> 1000 ppm	PAE resin modified for increased cationic charge. Lower crosslinking strength than Polycup 172.
Polycup 4500	Epoxide	20%	50 - 175	2.0 - 4.0	1.05	90 Days	> 1000 ppm	Used in applications with non-optimum system conditions. Very high crosslinking strength.
Primarily used for applications related to food or personal care.								
Polycup 9130	PAE ⁽¹⁾	13%	25 - 75	2.5 - 3.5	1.03	60 Days	< 1000 ppm	First choice for most applications.
Polycup 9200	PAE ⁽¹⁾	20%	50 - 150	2.5 - 4.0	1.06	60 Days	< 1000 ppm	Same as Polycup 9130 but higher solids.
Polycup 3130	PAE ⁽¹⁾	30%	100 - 200	2.2 - 3.0	1.10	60 Days	< 1000 ppm	PAE resin modified to achieve high solids. Best suited for surface applications.
Polycup 7360A	PAmE ⁽²⁾	38%	180 - 300	2.5 - 4.0	1.11	90 Days	< 1000 ppm	High cationic charge. May have reduced reactivity in some applications.
Primarily used for applications related to food or personal care.								
Polycup 2000	PAE ⁽¹⁾	12%	25 - 100	2.2 - 4.0	1.02	90 Days	< 10 ppm	First choice for food contact.
Polycup 9700	PAE ⁽¹⁾	15%	50 - 200	7.0 - 9.0	1.03	180 Days	< 10 ppm	High secondary amine functionality. Crosslinks epoxide resins. Boosts performance of other PAE resins.

⁽¹⁾ PAE = Polyamide Epichlorohydrin

⁽²⁾ PAmE = Polyamine Epichlorohydrin

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