

**TECHNICAL DATA SHEET**

**Issue /Rev. No**  
**001/01**

**Revision Date**  
**01.12.2025**

**Product - Trade Name**  
**PCA® 717**

**Classification**

Methylated high Imino melamine crosslinker in N-Butanol

**Composition**

Resin is methylated high Imino melamine crosslinker supplied in N-Butanol

**Product Description**

PCA® 717 is methylated high Imino melamine crosslinker supplied in N-Butanol.

It contains 80% of non-volatile matter. A wide range of water borne or organo-soluble polymeric materials can be cross-linked with this material. The polymeric materials should contain functional groups e.g. hydroxyl, carboxyl or amide and would include alkyds, polyesters, acrylic, epoxy, urethane, and cellulose.

**Physical properties**

Form : Clear, Liquid  
Sp. Gr.@ 25°C (Typical) : 1.140

**Chemical Properties**

Parameters	Specification	Test Method ASTM/RCPL
Non-volatile, % by weight*	84±2%	D-4903/ T17-A
Refractive index	1.500-1.525	D-1218
Free formaldehyde, weight %	0.75 Max.	ISO11402/ D-1979
Viscosity (cP) @ 23°C	3000 - 8000	D-1417

\* As determined by Foil Method, 45 minutes at 45°C

**Solubility Characteristics**

PCA® 717 resin is soluble in most commonly used organic solvents, e.g., aromatic hydrocarbons, alcohols, esters, and ketone solvents. Though the solubility of PCA 717 resin in water is limited, when blended with most other water-reducible resins, tolerates dilution in water.

**Compatibility**

PCA® 717 resin is very good compatibility with Acrylic resins, Alkyd resins, Epoxy resins and Polyester resins.

**Reactivity and Catalysis**

PCA® 717 resin with hydroxyl, carboxyl and amide functionalities on other polymers is typically catalyzed by the presence of a strong acid catalyst (pKa value of <1). Because of its high functionality and low tendency to self-condense, PCA® 717 resin is a very effective crosslinking agent. When used with polyester resins, in particular, it can provide films with high flexibility and formability. To optimize the quantity of PCA® 717, loading to be established experimentally.

**Stabilization**

Solvent based coating formulations containing PCA 717 resin can be stabilized by adding either alcohol solvents or amines. For many high solids formulations, a combination of both is desired. For a water borne system, pH should be kept at 7.5-8.5 for optimum stability.

**Advantages**

- Economical
- Wide compatibility and solubility
- Medium to high solids
- Excellent hardness-film flexibility and stability
- Very Fast catalyzed cure response

**Application Areas**

- Automotive Coatings
- Container coatings & Coil coatings
- High solids finish & Water borne finishes
- General metals finishes & Inks

**Health and Safety Information**

Refer MSDS for complete details

**REACH Compliance:**

Material is meeting the REACH compliance.

**Storage properties**

Stable for 2 years when stored tightly at normal room temperature.

**Packaging**

200/250 Kgs HDPE, MS Drums/1200 kgs IBC

**Note:**

Information in this publication is believed to be accurate and is given in good faith, but it is for the customer to satisfy itself of the suitability for its own particular purpose. RCPL gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that law prevents such exclusion.

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