

**TECHNICAL DATA SHEET**

**Issue No**  
**002/03**

**Revision Date**  
**01.04.2024**

**Product - Trade Name**

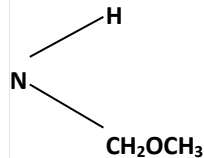
PCA 717

**Classification**

Paint's Cross Linking Agent

Highly Methylated Melamine Formaldehyde Resin  
84% in n-butanol

**Molecule Structure**



**Product Description**

PCA 717 is an amino resin type crosslinking agent. It is a new type of high methylated melamine formaldehyde resin, where alkylation alcohol is methanol. It is designed to give rapid low temperature cross linking, without the need for strong acid catalyst for fast cure response.

**Physical properties**

Appearance: Clear, semi viscous liquid

**Chemical properties**

Non-volatile, % by weight*	82 - 86
Solvent	n-butanol
Viscosity, Brookfield	3000 – 10000 mPas
Specific gravity, Solution	1.12
Specific gravity, Resin	1.24
Methylol Content	Low
Free formaldehyde, weight %	1.0 maximum

\*1 as determined by Foil Method, 45 minutes at 45°C

**Solubility**

PCA 717 resin is completely soluble in most alcohols, polyols, ketones, esters, glycol ethers and chlorinated solvents; partially soluble in water & aromatic hydrocarbons;

**Reactivity and Catalysis**

PCA 717 resin is reactive with hydroxyl amide and carboxyl group containing polymers.

PCA 717 requires only weak acid catalysis for cure; low acid number in the backbone resin is sufficient.

PCA 717 resin will self condense like the partially methylated resin. Higher film hardness may, therefore, be obtained by raising the level of amino cross linking agent.

**Advantages**

- Fast cure response
- Reduced weight loss
- Low free formaldehyde
- Less blistering
- No smoke acid catalyst required
- No smoking
- Higher resistance properties

**Application Areas**

- Automotive enamels
- Coil coatings
- High solids coatings
- Water borne coatings
- General purpose enamels

**Health and Safety Information**

Direct contact with this material may cause mild eye and minimal skin irritation. PCA 717 resin contains formaldehyde; overexposure to formaldehyde vapors may cause irritation of the respiratory tract and eyes.

**Storage properties**

Stable for one year, when stored tightly at normal room temperature.

**Handling precautions**

Irritating to the eyes, respiratory system and skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Packaging**

200 kg in HDPE Drums.

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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