

TYPE

PHENODUR® EP 560 is a solution of a butyl etherified phenol formaldehyde crosslinker resin

USE

PHENODUR® EP 560 is used as a crosslinker for epoxy, hydroxyl, carboxyl and amide functional vehicles to produce baked films with excellent chemical resistance, corrosion protection and adhesion.

PHYSICAL PROPERTIES

Property	Limitis	Test Method
solids content, 1 h/110°C	68 - 74	modified ASTM D 2369 *
Brookfield viscosity (25°C), cps	1300 - 2600	local method approved
density (25°C), g/cc	1.08 - 1.13	QS-PA 10-09 or equivalent
free formaldehyde, %	< 0.1	HPLC , local method LC 121

* (0.5 g resin + 3 ml acetone, 80 mm diameter weighing pan + paper clip)

USER INFORMATION

Density, Lb./Gal.	9.0 - 9.4
Color (Gardner)	max. 10
Flash point (Pensky-Martens, closed cup)	124°F (51°C)
Solvent	n-Butanol

SPECIAL PROPERTIES AND USE

PHENODUR® EP 560 contributes film flexibility superior to that from other typical phenolic resins. This greater flexibility enables PHENODUR® EP 560 to be used at higher concentrations and/or greater total film thicknesses and thereby provides improved chemical and corrosion resistance. Another unique advantage of PHENODUR® EP 560 is its lower temperature cure response. This superior cure response is observed both in the presence and in the absence of the recommended phosphoric or sulfonic acid catalysts.

These advantages lead to the utility of PHENODUR® EP 560 in can and drum linings and in coil-coated and spray-applied metal primers and topcoats. In these applications, PHENODUR® EP 560 is used with epoxy, alkyd and polyester vehicles at levels of 20 - 50% of crosslinker solids on total binder. PHENODUR® EP 560 is also useful at 1 - 5% levels in other formulations to upgrade intercoat and metal adhesion.

STORAGE

At temperatures up to 77°F (25°C) storage stability packed in original containers amounts standard to at least 365 days.

Storage at lower temperatures can maximize shelf life further, e. g. at 40° - 50°F (4° - 10°C).

The expiration date may be extended and COA updated after QC testing of retained samples, only for material in allnex possession.

SAFETY AND HANDLING

Please consult the Safety Data Sheet (SDS) for safety, health, and environmental data available from allnex.