



BLUEBELL POLYMERS PRIVATE LIMITED

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PRODUCT CODE: EPOXY / 02.01

BLUMER 1450XX

TYPE: Unmodified medium molecular weight solid epoxy resin solution for coatings.

SPECIFICATIONS:

1) Appearance	Colorless to light straw color viscous resin.
2) Density @ 25 ⁰ C.	1.07 - 1.09
3) % Solids @ 120 ⁰ C. for 2 hrs.	73 - 77
4) Solvent	Xylene
5) Viscosity @ 25 ⁰ C. (50% solution in DAA : Xylene 1 : 1 by ford cup no. 4 in seconds.)	45 - 55
6) Colour (gardner)	3 max.
7) Epoxide equivalent weight of solid resin	450 - 550
8) Chlorine Content	0.1 Max.

SOLUBILITY : Blumer 1450XX is soluble in equal mixture of n-Butanol and aromatic hydrocarbons, esters, ketones and glycol ethers. It has limited solubility in aromatic hydrocarbons and is insoluble in aliphatic hydrocarbons and water.

COMPATIBILITY : Blumer 1450XX is compatible with amino resins, thermosetting acrylics and short oil alkyd resins. It is also compatible with hardeners such as aliphatic and aromatic polyamines, polyamine epoxy adducts, polyamides, phenolic resoles and butylated phenolics.

APPLICATIONS : Blumer 1450XX finds applications in maintenance coatings, marine finishes, tank linings, floor finishes, trade sale paints, concrete coatings and interior pipe coatings. Blumer 1450XX due to its narrow and rigid specifications reduces batch to batch variations in final coating properties, gives superior flow, freedom from crawling and cratering and has superior wetting properties. Further it reduces pigment floating, flocculation and silking.

SUGGESTIVE FORMULATIONS :

1)White gloss enamel with excellent adhesion on steel, extreme hardness and impact resistance. atmosphere.

PART I	Base	kgs.	
	Titanium dioxide rutile	22.3	
	Blumer 1450XX	28.5	
	Cellosolve	7.7	
	Xylene	15.7	
	Synpol MF 268	0.4	
	Aerosil 200	<u>0.4</u>	75.0
PART II	Hardener		
	Synpol 115	15.8	
	Xylene	5.6	
	Cellosolve	<u>3.6</u>	<u>25.0</u>
	Total		100.0

2)Epoxy amine adduct coal tar modified maintenance coating for corrosive

PART I	Base	kgs.	
	Talc	25.0	
	Aerosil 200	1.0	
	Blumer 1450XX	16.2	
	Coal tar pitch	36.6	
	Xylene	8.6	
	N-Butyl alcohol	<u>12.6</u>	100.0
PART II	Hardener		
	Hardener 444	12.2	
	Xylene	1.4	
	N-Butyl alcohol	<u>1.4</u>	<u>15.0</u>
	Total		115.0

% Solids	60.0
Epoxy hardener ratio	57.5 : 42.5
Pot life @ 25 ⁰ C, hrs., aprox.	24.0
Cure @ 25 ⁰ C, days, for max. propertie	7

Mixing ratio by weight	100 : 15
% Solids	80.0

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MATERIAL SAFETY DATA :

Product name	Blumer 1450XX
Flash point ⁰ C. (Abel closed cup)	30
Flammability	Moderate fire risk
Toxicity	Mild toxic
Handling	Keep away from sources of ignition, provide all electric connections of flame-proof design. Wear safety glasses, rubber gloves and protective clothings.
Emergency treatment and measures	
1 Hygienic precautions	Adequate ventilations.
2 Hygienic treatments (First Aid)	Flush eyes thoroughly with water. Apply ophthalmic cortisone for conjunctivitis and keratities. Wash out contaminated skin with soap and water. Gastric lavage (stomach wash), if swallowed, followed by saline catharsis.
3 Fire precautions (in case of outbreaks)	Use dry chemical or carbon dioxide. Water spray may help to keep containers cool, to dilute leaked resins and to diffuse vapours.
Spills and leakage	Absorb liquid materials in sand and collect solid Material and burn under hood in incinerator.
Disposal and waste treatment	Spray into furnace under controlled conditions.

STORAGE :

Blumer 1450XX should be stored in cool place under shade. The properties are so adjusted to have storage stability of minimum 6 months.

PACKING :

25 kgs. M.S. drums, 50 kgs. Plastic carboys and 200 kgs. M.S. barrels.

DISCLAIMER :

Information in this literature is to the best of our knowledge true and accurate. However, since conditions under which our products may be used are beyond our control, recommendations are made without warranty or guarantee.

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