



## ARIHANT CHEMICAL CORPORATION & J.J ENTERPRISE

**For paints / inks / plastic / Rubber industries Raw material available with us under self import / Manufacturing / Trading.**

### Epoxy Resin :- Specification

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

**SPECIFICATIONS:**

1) Appearance	Light straw colour viscous resin.
2) Density @ 25 <sup>0</sup> C.	1.07 - 1.09
3) % Solids @ 120 <sup>0</sup> C. for 2 hrs.	73 - 77
4) Solvent	Xylene
5) Viscosity @ 25 <sup>0</sup> 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	0.4	75.0
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PART II	Hardener		
	Synpol 115	15.8	
	Xylene	5.6	
	Cellosolve	3.6	25.0
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	Total		100.0
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% Solids		60.0	
Epoxy hardener ratio		57.5	: 42.5
Pot life @ 25 <sup>0</sup> C, hrs., approx.		24.0	
Cure @ 25 <sup>0</sup> C, days, for max. properties			7

*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	12.6	100.0
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PART II	Hardener		
	Hardener 444	12.2	
	Xylene	1.4	
	N-Butyl alcohol	1.4	15.0
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	Total		115.0
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Mixing ratio by weight		100	: 15
% Solids		80.0	

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**DISCLAIMER:** Above Specifications are subject to change without prior notice and company reserves the right to modify the same at any time

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