



Chemieresin Industries Pvt. Ltd.

Plot No. 901/A, Phase - 4, GIDC - Naroda, Ahmedabad - 382330

Technical Data Sheet

Product : CR - 734 – Amine Adduct

Type :

Modified aliphatic polyamine hardener.

Description :

Epoxy hardener based on modified aliphatic amine.

Specifications :

1) Appearance	: Clear pale yellow viscous liquid with characteristic odour.
2) Density@ 250 C.	: 0.99 - 1.01
3) Viscosity@ 250 C., cps.	: 70 - 150
4) Colour	: 1 Max.
5) Amine value, mg. KOH/gm by HClO ₄ method	: 900 - 950
6) Amine equivalent weight aprx.	: 44
7) Mixing ratio with 100 parts of CR120epoxy	: 22 - 25
8) Cure schedule@ 250 C., hrs.	: 16 - 24
9) Pot life @ 250 C., of 100 g mix with CR120, mts.	: 25 - 50
10) Peak exotherm temperature in 0 C of 100 g mix with CR 120	: 175° to 210°

Compatibility :

Hardener CR734 is compatible with modified and unmodified liquid epoxy resins, reactive diluents, plastisizers.

Applications :

Hardener CR734 with suitable grade of liquid epoxy resin is very useful in formulation of solvent free coatings, castings, sealing and laminating. It provides very good wetting properties to glass fiber in laminating applications. It is also suggested for clear and pigmented coating for requiring high chemical, water and solvent resisting properties. Hardener CR734 in combination with liquid epoxy resin CR120 is very useful as sealing agent, protective coating on concrete, spontaneously spreading floor coatings, adhesive primers on steel and concrete, road surface coating, marine paints, linings of swimming pools and settling tanks, channels and pipes. It may be used as injection repair of cracks in concrete structures.

Suggestive formulations :

Electrical encapsulating compound.

Part I		kgs.	
	CR120epoxy	100	
	Aerosil 200	5	
	Silica flour	73	178
Part II			
	Hardener CR734	25	<u>25</u>
	Total		203
Pot life @ 250 C., mts.		10 - 20	
Cure schedule @ 250 C., hrs.		24 - 36	

Material Safety Data :

Product name	: Hardener CR734
Flash point 0 C. (Abel closed cup)	: 25
Flammability	: Combustible.
Toxicity	: Moderately toxic. Irritant to skin and causes inflammation. Avoid contact with skin.
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 keratitis. Wash out contaminated skin with soap and water. Gastric lavage (stomach wash), if swallowed, followed by saline catharsis.
3 Fire precautions	Use dry chemical or carbon dioxide. Water (in case of outbreaks) spray may help to

Spills and leakage	keep containers cool, to dilute leaked resins and to diffuse vapours. 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 :

Hardener CR734 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. PVC. 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.