

PRODUCT CODE: HARDENER / 04.20

DMP 30

TYPE: Hardener cum accelerator based on tertiary amine.

DESCRIPTION: DMP 30 is a tris - 2,4,6 dimethyl amino methyl phenol based hardener for epoxy resin, and accelerator for other curing hardener such as carboxyl anhydride, amino adducts and polyamides..

SPECIFICATIONS:

1) Appearance	Free flowing, amber colour, low volatile liquid with characteristic fishy odour.
2) Specific gravity @ 25 ⁰ C.	0.97 – 0.98
3) Viscosity @ 25 ⁰ C., by Brookfield viscometer, poise	1 - 5
4) Colour gardner	14 max.
5) Mixing ratio with,	
a. 100 parts of Synpol 200	5 - 10
b. 100 parts of liquid epoxy resin & liquid polysuphide	5 - 15
c. 100 parts of other hardeners	2 - 5
6) Pot life @ 25 ⁰ C., of 100g mix (7 phr) with Synpol 200, mts.	35 - 45
7) Amine value, mg. KOH / gm. by HClO ₄ method	600 - 640
8) Typical cure schedule as a homopolymerisation catalyst @ 80 ⁰ C., hrs.	1

COMPATIBILITY: DMP 30 is compatible with all types of epoxy resins, polyamine epoxy adducts, reactive polyamides, aromatic polyanhydrides and with blends of liquid epoxy resin and liquid polysuphides.

APPLICATIONS: DMP 30 as hardener is very useful for adhesives, electrical castings and impregnation and high performance composites, as an accelerator with reactive polyamides for flooring, castings and solvent-less coatings. It is also used as accelerator for anhydride hardeners used for casting and laminating. It find uses as accelerators for chemical resistant coatings, epoxy resin / polysulphide co-cures for stopping compounds.

SUGGESTIVE FORMULATIONS:

1) Two pack metal bonding adhesive.

Part I	Base	kgs.	
	Synpol 200	37.5	
	Epoxy alcohol BGE	4.0	
	Tubular alumina	<u>8.5</u>	50.0
Part II	Hardener		
	Synpol 115	41.0	
	DMP 30	0.4	
	Tubular alumina	<u>8.6</u>	<u>50.0</u>
	Total		100.0
Cure schedule @ 25 ⁰ C., hrs.		76	
Or @ 60 ⁰ C., hrs.		4	
Or @ 120 ⁰ C., mts.		30	

2) Two pack flexible caulking compound.

Part I	Base	kgs.	
	Synpol 200	18.0	
	Epoxy alcohol BGE	3.5	
	Calcium carbonate	8.0	
	Fine asbestos fiber	<u>4.0</u>	33.5
Part II	Hardener		
	Polysulphide resin LP-3	42.0	
	Calcium carbonate	17.0	
	Fine asbestos fiber	6.0	
	DMP 30	<u>6.0</u>	<u>66.5</u>
	Total		100.0
Mixing ratio			33.5 : 66.5
Cure schedule @ 25 ⁰ C., weeks		2	
Or @ 70 ⁰ C., hrs		3	

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MATERIAL SAFETY DATA :

Product name	DMP 30
Flash point ° C. (Abel closed cup)	140
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 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:

DMP 30 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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