



# SYNPOL PRODUCTS PRIVATE LTD.

Regd Office & Factory: 77, G.V.M.S. AUDYOGIC VASAHAT LTD.,  
ODHAV, AHMEDABAD – 382 415, INDIA

PRODUCT CODE : Hardener / 04.23

## Hardener 620

TYPE : Cycloaliphatic amine adduct.

DESCRIPTION : Colour stable, low viscosity, high reactivity epoxy hardener.

### SPECIFICATIONS :

1) Appearance	Colorless clear viscous liquid.
2) Specific gravity @ 25 <sup>o</sup> C.	1.01 - 1.04
3) Viscosity @ 25 <sup>o</sup> C., poises	2 - 5
4) Amine value by HClO <sub>4</sub> method, mg KOH / gm	280 - 320
5) Mixing ratio with 100 parts of Synpol 200	45 - 55
6) Pot life @ 25 <sup>o</sup> C with Synpol 200 of 100 g mass, minutes.	15 - 30
7) Suggested cure schedule @ 25 <sup>o</sup> C., days.	7

**COMPATIBILITY :** Hardener 620 is compatible with all types of modified and unmodified liquid epoxy resins, reactive diluents, plastisizers, and other hardener based on aliphatic and aromatic polyamines, polyamides etc.

**APPLICATIONS :** Hardener 620 is specially formulated for industrial floorings, requiring colour stable, solvent free epoxy systems in civil engineering applications. For flooring applications, there are two types of formulations.

a. Self leveling system are formulated with a filler content of 85 % or less are normally applied with thickness upto 3 mm. ( Max. 5 mm.). Due to low viscosity, composition is spread with the help of plastic comb or broom. These formulations are used where excellent chemical resistance and a smooth and high gloss surface is required, such as breweries, dairies, food factory, meat packing plants, hospital and laboratory floorings. If skid resistance surface is required, quartz sand is spread over it, before coating is cured and subsequently excess filler is wiped away, after complete curing has taken place.

b. Trowelling system with filler content of 85 % and more are normally applied in thickness of 5 - 10 mm. These types of floorings are characterised by high mechanical resistance and same can be used as repair and patching mortars. In case when filler content of say 90 % is used, it is absolutely necessary to apply primer coat since trowelling mortar do not contain enough binder to wet the substrate.

### SUGGESTIVE FORMULATIONS :

#### 1) Colour stable decorative self leveling floor coating.

Part I		kgs	
Synpol 200		100	
Titanium dioxide Anatase		4	
Coloured pigments		2	
Blanc fix		120	
Quartz sand ( 0.1 - 0.3 mm. )		240	466
Part II			
Hardener 620		<u>50</u>	<u>50</u>
		Total	516

#### 2) Trowelling composition.

Part I		kgs.
Synpol 200		100
Silica flour		144
Quartz sand (0.1 - 0.3 mm)		240
Quartz sand (1 - 2 mm.)		485
Part II		
Hardener 620		<u>50</u>
	Total	1019

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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

## MATERIAL SAFETY DATA :

Product name	Hardener 620
Flash point ° C. (Abel closed cup)	139
Flammability	Combustible
Toxicity	Mild toxic. Avoid direct 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 :

Hardener 620 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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