



SYNPOL PRODUCTS PRIVATE LTD.

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PRODUCT CODE : MISC. / 10.17

Synpol 215 & Hardener 315

TYPE : Fast setting modified epoxy resin based adhesive

DESCRIPTION : Two pack, fast setting adhesive suitable for using on conveyor based battery manufacturing system, suitable for application of adhesive by self-proportioning mixing gun.

SPECIFICATIONS :

	Synpol 215	Hardener 315
1) Type	Modified Epoxy resin	Accelerated Polyamine
2) Appearance	Colorless transparent liquid	Brown transparent liquid
3) Specific gravity @ 25 °C	1.14 - 1.18	1.10 - 1.14
4) Viscosity @ 25 °C, poises	15 - 25	9 - 19
5) Mixing ratio by weight	100	45 - 49

CURE SCHEDULE :

Curing temperature ° C	60
Curing time in minutes	40
Pot life with 200gm. mix @ 25° C, minutes.	12 - 15
Peak Exotherm temperature ° C	187 - 195

MIXING SCHEDULE :

Base resin Synpol 215, Pigment paste (where colored epoxy is required) & Hardener 315 to be mixed in the sequence and proportions given below.

In case of colored epoxy :

Step I : Mixing ratio of Base resin Synpol 215 : Pigment paste (either black or red) = 100 : 1.5 - 2.0
The above mixing to be done before mixing with Hardener 315.

Step II : Mixing ratio of Colored resin : Hardener 315 = 100 : 45 - 49

CURED CHARACTERISTICS :

Tensile Shear Strength of Bonded ABS to ABS, $\text{kgs/cm}^2 = 40 - 80$
(after curing at 60° C for 40 minutes)

APPLICATIONS :

Synpol 215 and Hardener 315 is specially formulated adhesive for bonding ABS to ABS. It is useful for bonding of lids with the container of small size & stationary VRLA batteries. These types of batteries are very useful for UPS, small telephone exchanges, etc. This adhesive is also used as a coding of positive and negative terminal sealing. For this purpose suitable tinting paste of red and black color are also supplied with this adhesive.

Synpol 215- Hardener 315 mix without pigment paste : For sealing of container lid.

Synpol 215- Hardener 315 mix with red pigment paste : For positive terminal sealing with lid

Synpol 215- Hardener 315 mix with black pigment paste : For negative terminal sealing with lid

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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	Synpol 215	Hardener 315
Flash point ⁰ C. (Abel closed cup)	115	120
Flammability	Moderate fire risks.	
Toxicity	Moderately toxic by exposure and inhalation 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 :

Synpol 215 and Hardener 315 should be stored in cool and dry place under the shade. The properties are so adjusted to have a storage stability of minimum 6 months.

PACKING :

10 kgs. Plastic Carbuoy.

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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