

TECH DATA SHEET

AP1040 is low viscosity, reactive, Phenalkamine hardener for epoxy resin based lacquers and coatings.

1. APPLICATIONS:

AP1040 is used as a hardener for liquid epoxy or solid epoxy resin solution based compositions. Suitable for making solvent free or high solids coating compositions, which can be applied with standard one component airless spray systems. No critical mixing ratio. Ideal for marine and protective coatings e.g. tank linings, structural steel, concrete floorings, etc.

2. PROPERTIES:

Epoxy coating systems cured with AP 1040 present the following features.

- Suitable for application at Low temperature up to 0°C. (32°F)
- High levels of mechanical stability.
- Good chemical resistance
- Good corrosion resistance
- Due to Phenolic nature of AP 1040 coatings based on it are likely to change colour of the film when exposed to heat and sunlight.

3. KEY DATA:

1. Appearance (Visual)	Clear amber colored liquid
2. Odor	Amine
3. Colour (Gardener, ASTMD1544)	17 max
4. Viscosity at 25 °C DIN 53015 (ISO 12058)	2000 – 4000 mPas
5. Density at 25 °C (ASTMD1475)	0.97 - 0.99 kg/l
6. Non Volatiles	Solvent free
7. Amine Numbers (ISO 9702)	490 - 550 mg KOH/g
8. Active hydrogen equivalent wt.	81 calculated
9. Mixing with epoxy resin (EEW = 190)	
Epikote 828	100
AP 1040	35 - 42

Specialists in low temperature curing epoxy hardeners

Survey No. 207, Village : Luna, Taluka : Padra, District : Vadodara - 391 440, Gujarat, INDIA.

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4. CURE PROPERTIES:

Components	Parts by wt.
1. Epikote 828, GY 250	71.5
2. AP 1040	28.5
3. Gel time (100g @ 25 °C)	45 min
4. Thin film (8 mils, 200 microns WFT)	
5. Set time using BK Recorders	
@76 °F (25 °C)	8 - 10 hrs
@ 42 °F (5 °C)	18 - 20 hrs
@ 32 °F (0 °C)	35 - 40 hrs

Cured films at low temp shows haze at 100% RH.

5. STORAGE STABILITY:

- AP 1040 should be stored in a dry place, preferably in the sealed original container at temperatures 5 to 30 °C. The Product should not be stored exposed to direct sunlight.
- **Shelf life:** (5 to 30 °C): 6 Month.
- **Hazardous decomposition products:** (When in fire) Carbon monoxide, Carbon dioxide, Nitrogen Oxides and other toxic Gases & Vapors.

6. HANDLING PRECAUTIONS:

The hardener will absorb moisture & carbon dioxide when left in open containers. This may result in increased viscosity & sometimes crystallization. Use personal protective equipments & follow industrial hygienic procedures. Recommended to use safety glasses, protective clothing, gloves, & masks suitable for chemical and solvents & their vapor.

Disposal: As per approved by local authorities. Refer MSDS before use.

7. DISCLAIMER:

Though the information contained here in is believed to be accurate, seller makes no representation or warranty, express or implied, including merchantability or fitness for a particular purpose. Under no circumstances shall seller be liable for incidental consequential or indirect damages for alleged negligence breach of warranty or contract arising in connection with the products. Data and results are based on controlled or lab work and must be confirmed by buyers by testing for its intended conditions of use. Recipient assumes all responsibility for the use of the information and uses the product alone or in combination with any other product, storage or disposal of the product, containers including any resultant personal injury or property damage.

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