

**TECH DATA SHEET**

AP 1080 is low – medium viscosity, reactive Phenalkamine adduct hardener solution for epoxy resins based lacquers and coatings.

**1. APPLICATIONS:**

It is used in combination with liquid Epoxy resins or solid epoxy resin solution or epoxy resins modified by means of reactive diluents or non-reactive diluents. Suitable for making high solids coating compositions with a workable wide range of Pot lives. Suitable for application with standard one-component airless spray systems. Ideal for marine and protective coatings e.g. tank coatings, structural steel, concrete flooring etc.

**2. PROPERTIES:**

Epoxy coating systems cured with AP 1080 present the following features.

- Rapid cure at low temperature down to 0 °C (32 °F).
- High levels of mechanical stability.
- Good adhesion to marginally prepared surfaces.
- Resistance to aqueous alkaline, acid and saline solutions.
- Good corrosion resistance.
- Due to Phenolic nature of AP 1080 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)	3700 – 4700 mPas
5. Density at 25 °C (ASTMD1475)	0.97 - 0.99 kg/l
6. Non Volatiles (105 °C @ 1 Hrs)	78 - 82 % w/w
7. Amine Numbers (ISO 9702)	230 - 270 mg KOH/g
8. Active hydrogen equivalent wt.	164 calculated
9. Mixing with epoxy resin (EEW = 190)	
Epikote 828	100
AP 1080	86

**4. CURE PROPERTIES:**


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**Specialists in low temperature curing epoxy hardeners**

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<b>Components</b>	<b>Parts by wt.</b>
1. Epikote 828, GY 250	54
2. AP 1080	46
3. Gel time (100g @ 25 °C)	> 40 min
4. Thin film ( 8 mils, 200 microns WFT)	
5. Set time using BK Recorders	
@77 °F (25 °C)	4 - 6 hrs
@ 42 °F (5 °C)	8 - 10 hrs
@ 32 °F (0 °C)	14 - 16 hrs

**5. STORAGE STABILITY:**

- AP 1080 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): 12 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 and carbon dioxide when left in open containers. This may result in increased viscosity and some times crystallization. Use personal protective equipments and follow industrial hygienic procedures. Recommended to use safety glasses, protective clothing, gloves, & masks suitable for chemical, 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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