

TECH DATA SHEET

AP 1158 is low viscosity, reactive, solvent free phenalkamine hardener for epoxy resins based lacquers and coatings.

1. APPLICATIONS:

It is used in combination with liquid Epoxy resins or solids epoxy resin solution or epoxy resin modified by means of reactive as well as 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., structural steel, concrete flooring etc. Suitable to make epoxy adducts. Can be used in combination with polyamides, polyamines or other hardeners.

2. PROPERTIES:

Epoxy coating systems cured with AP 1158 present the following features.

- Rapid cure at low temperature.
- Good adhesion to marginally prepared surfaces.
- Resistance to aqueous alkaline, acid and saline solutions.
- Good corrosion resistance.
- Excellent penetration in damp concrete surfaces.
- High levels of mechanical stability.

3. KEY DATA:

| | |
|---|-----------------------------|
| 1. Appearance (Visual) | Clear yellow colored liquid |
| 2. Odor | Amine |
| 3. Colour (Gardener, ASTMD1544) | 17 max |
| 4. Viscosity at 25 °C DIN 53015 (ISO 12058) | 500 – 1500 mPas |
| 5. Density at 25 °C (ASTMD1475) | 0.97 - 1.00 kg/l |
| 6. Non Volatiles | Solvent free |
| 7. Amine Numbers (ISO 9702) | 320 - 360 mg KOH/g |
| 8. Active hydrogen equivalent wt. | 95 calculated |
| 9. Mixing with epoxy resin (EEW = 190) | |
| Epikote 828 | 100 |
| AP 1158 | 50 |

Epoxy Hardeners "Built to Perform"

Regd. Office & Works : Survey No. 206-207, Village : Luna, Taluka : Padra, District : Vadodara - 391 440, Gujarat, INDIA.
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CIN : U24224 GJ2002 PTC040987

TECH DATA SHEET**4. CURE PROPERTIES:**

| Components | Parts by wt. |
|---|--------------|
| 1. Epikote 828, GY 250 | 66.5 |
| AP 1158 | 33.5 |
| 2. Gel time (100g @ 25 °C) | 35 - 55 min |
| 3. Thin film (8 mils, 200 microns WFT) | |
| 4. Set time using BK Recorders | |
| @77 °F (25 °C) | 4 - 6 h |
| @ 42 °F (5 °C) | 16 - 20 h |

5. STORAGE STABILITY:

- AP 1158 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 & carbon dioxide when left in open containers. This may result in increased viscosity & sometimes crystallization. The product may show fumes in presence of high humidity (>40% RH) and in acidic environment. 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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