

Innovative Epoxy Curing Agent

1,3-BAC

UV Resistance & Clarity

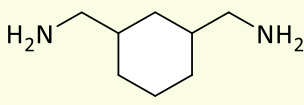
Epoxy Hardener Raw Material



1,3-BAC Advantages

- **Excellent UV Resistance & Clarity**
- **Excellent Curing even at High Temperature & High Humidity**
- **Cost saving through material reduction**

Structure and Property

| | 1,3-BAC (MGC)  | Typical Hardener |
|-------------------------|--|-------------------------|
| Molecular Weight | 142.2 | 170.3 |
| AHEW / phr | 35.6 / 19.1 g (Cost Saving) | 42.6 / 22.9 g |
| Freezing Point | < -70 °C (*) | 10 °C |
| Viscosity (25°C) | 9.1 mPa·s | 18 mPa·s |

(*): avoid unnecessary heating in winter



Typical Applications

1,3-BAC provides
Excellent UV Resistance and Clarity



Hot & Humid Conditions: *Excellent Curing Performance*

| | | 1,3-BAC Adduct | Typical Hardener |
|----------------------------------|----------------|--------------------|--------------------|
| Dryness (1 day) | | ★★★★★ Excellent | ★★★★★ Excellent |
| Appearance (7 days) | | ★★★★★ Excellent | ★★★ Fair |
| Water Spotting Resistance | 1 day | ★★★★★ Excellent | ★★★ Fair |
| | 7 days | ★★★★★ Excellent | ★★★ Fair |
| Pencil hardness | 1 / 4 / 7 days | H / H / H | H / H / H |
| Pot Life (30°C, 300 g) | | 22 min | 45 min |

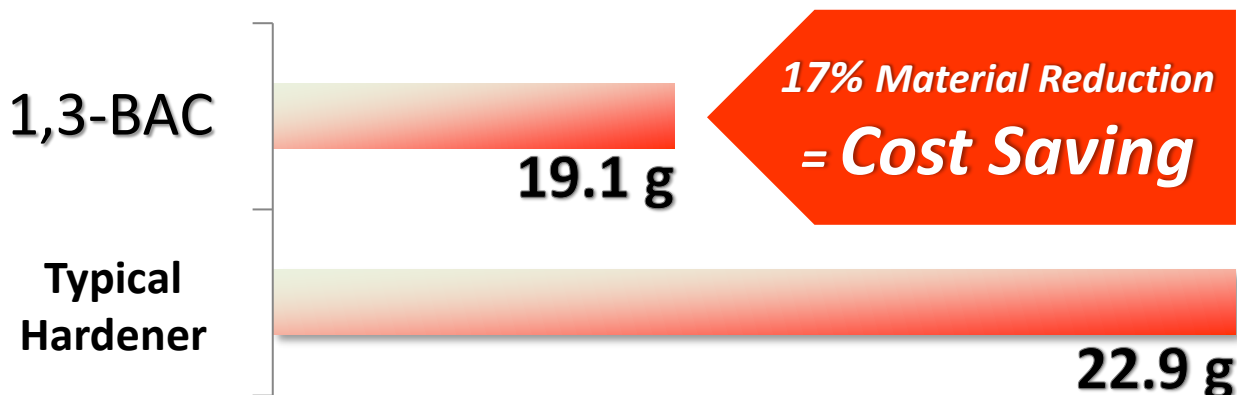
Curing Condition: 30°C, 80%RH

Epoxy Resin: Bisphenol A Type (jER828)

Pencil hardness: (hard) 2H>H>F>HB>B>2B>3B>>>6B (soft)

Cost Savings: *Lower AHEW*

Lower AHEW means less material... which equals
17% Cost Saving



Phr (Added Weight in 100 g Standard Epoxy Resin)

Epoxy Resin: BisphenolA Type(jER828)

Contact Information

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