

Product Data Sheet

Preliminary K-FLEX[®] XM-B301 Reactive Diluent



Science Road
Norwalk, CT 06852
(800) 431-7900
Fax: (203) 866-1268
E-Mail: coatings@kingindustries.com

K-FLEX XM-B301 is a low viscosity, acetoacetate functional reactive diluent with excellent compatibility with a wide range of resins. It is primarily recommended for use in epoxy/polyamide primers, but can also be used in systems crosslinked with amino resins or polyisocyanates.

APPLICATIONS:

- Epoxy-polyamide Primers for:
- Industrial Maintenance
- Marine
- Aerospace
- Automotive
- Truck/Bus/Rail
- Agricultural/Construction Equipment

ADVANTAGES:

- Reduce induction time of epoxy-polyamide coatings
- Excellent adhesion and improved corrosion resistance
- Excellent compatibility with acrylic, polyester, epoxy resins
- VOC and viscosity reduction
- Elimination of solvent popping and pinholes
- Effective crosslinking with a variety of resins

| | | |
|----------------------------|--------------------------------------|---------------------|
| TYPICAL PROPERTIES: | Appearance | Clear, amber liquid |
| | % Nonvolatile, 1 Hr @ 110° C | 97 |
| | Solvent | None |
| | Viscosity, cps, 25° C | 1100 |
| | Equiv. weight g/eq (active hydrogen) | 190 |
| | Flash Point, °F | >200 |
| | Specific gravity, g/ml | 1.14 |

| | | |
|--------------------|---------------------------|-------------|
| SOLUBILITY: | Alcohols, esters, ketones | Soluble |
| | Aromatic hydrocarbons | Soluble |
| | Aliphatic hydrocarbons | Not Soluble |
| | Water | Not Soluble |

HANDLING & STORAGE: Refer to MSDS for complete handling instructions.

REGULATORY: This product qualifies for polymer exemption under TSCA and EINECS guidelines.

File: xm_B301

Issue Date: 8/15/01

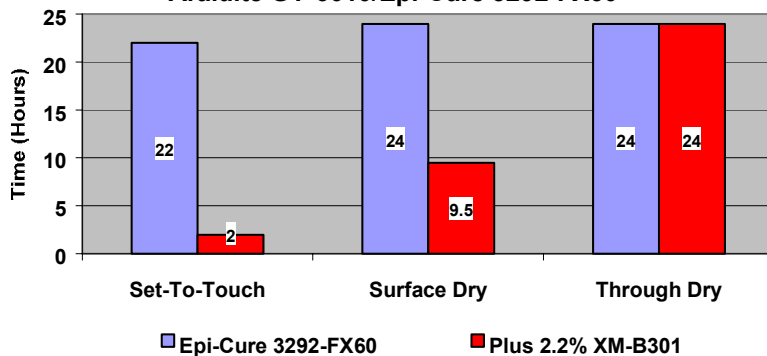
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New Acetoacetate Modifier Resin, K-FLEX XM-B301

2K Epoxy System Modification Benefits for Coating Primers, Adhesives, Sealants, Potting Compounds & Encapsulants:

- Reduced induction time without blushing problems (epoxy/polyamide)
- Faster low temperature (5°C) cure (epoxy/amine)
 - Faster surface-dry and set-to-touch times/Improved flexibility
 - Improved salt fog wet adhesion/humidity resistance
 - Doesn't hurt film stability/performance like other technologies
 - Innocuous unlike benzyl alcohol and TMPTA
 - Low levels required (1.4-3.1% on formulation)
 - Crosslinks into film, not just a plasticizer

Lower Temperature Cure SB System (5°C): Araldite GY-6010/Epi-Cure 3292-FX60



Improved Salt Fog Resistance (500 hrs) Epon 828 + Monomers/Epi-Cure 3251 Solventless Formulation EAP-2



Control

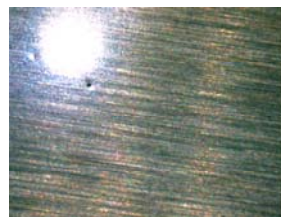


3 % K-FLEX XM-B301
On Total Formulation

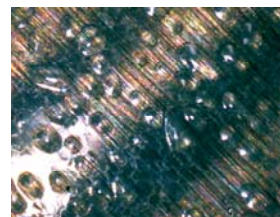
2,000 Hours Cleveland Humidity Exposure Epon 828 + Monomers/Epi-Cure 3251 Clearcoat



Control



3% K-FLEX XM-B301
on Total Formulation



3% TMPTA
on Total Formulation

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