

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

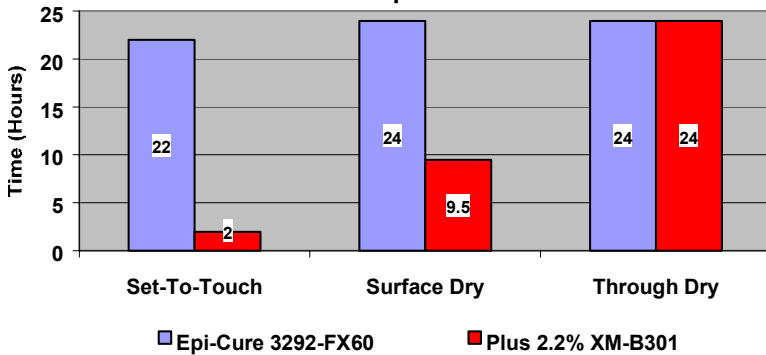
The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of product evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. Such testing has not necessarily been done by King Industries, Inc. ("King"). The facts, recommendations and suggestions herein stated are believed to be reliable; however, no guaranty or warranty of their accuracy is made. EXCEPT AS STATED, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE. KING SHALL NOT BE HELD LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES. Any statement inconsistent herewith is not authorized and shall not bind King. Nothing herein shall be construed as a recommendation to use any product(s) in conflict with patents covering any material or its use. No license is implied or granted under the claims of any patent. Sales or use of all products are pursuant to Standard Terms and Conditions stated in King sales documents.

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

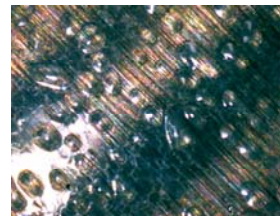
2,000 Hours Cleveland Humidity Exposure Epon 828 + Monomers/Epi-Cure 3251 Clearcoat



Control



3% K-FLEX XM-B301
on Total Formulation



3% TMPTA
on Total Formulation

The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of product evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. Such testing has not necessarily been done by King Industries, Inc. ("King"). The facts, recommendations and suggestions herein stated are believed to be reliable; however, no guaranty or warranty of their accuracy is made. EXCEPT AS STATED, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE. KING SHALL NOT BE HELD LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES. Any statement inconsistent herewith is not authorized and shall not bind King. Nothing herein shall be construed as a recommendation to use any product(s) in conflict with patents covering any material or its use. No license is implied or granted under the claims of any patent. Sales or use of all products are pursuant to Standard Terms and Conditions stated in King sales documents.