

# NON-TIN CATALYST FOR URETHANE CHEMISTRIES

## REAXIS® C3002EXP - EXPLORE THE POWER OF IRON

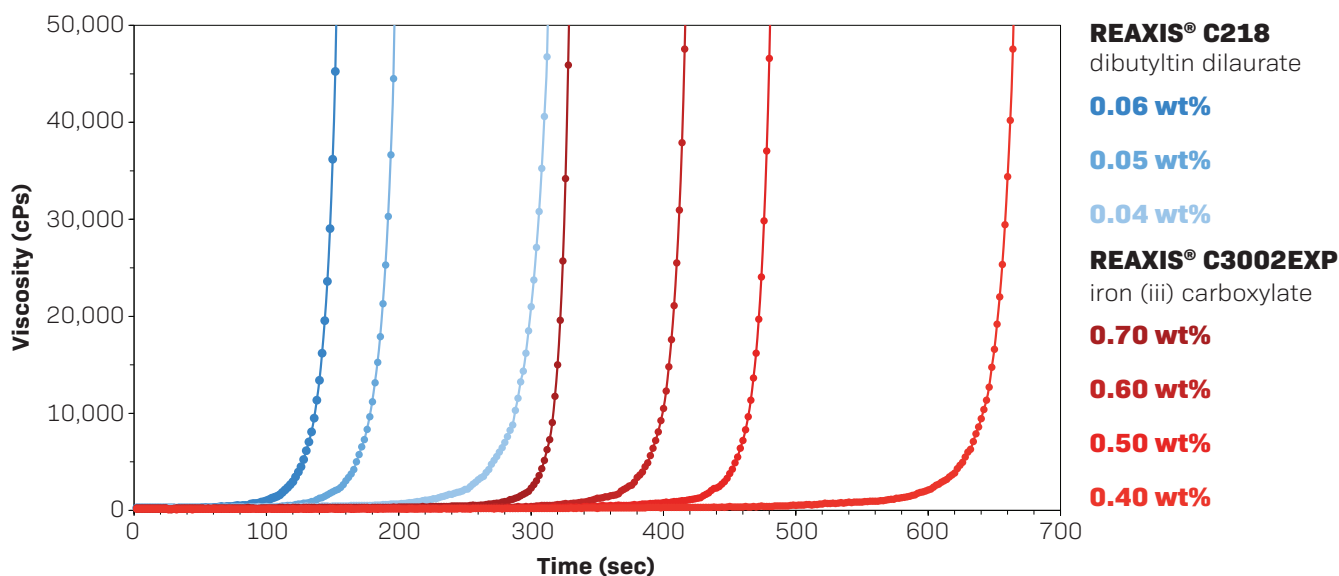
The implementation of stricter regulations for organotin catalysts has resulted in an increased demand for innovative and eco-friendly catalytic systems in the CASE (coating, adhesive, sealant, and elastomer) industry. We are proud to introduce REAXIS® C3002EXP, a delayed-action low viscosity iron carboxylate catalyst that is supplied in a non-reactive non-toxic diluent. The use of earth-abundant and less toxic metals, such as iron, is emerging as a staple platform for eco-friendly catalyst systems. At Reaxis®, we are continually striving to provide both innovative and environmentally conscious solutions for our customers.

### TYPICAL SPECIFICATIONS

Parameter	Range
IRON CONTENT (wt %)	5.0 - 5.5
VISCOSITY @ 20 °C (cPs)	100 MAX
DENSITY (g/mL)	0.90 - 1.00

### UNIQUE FEATURES OF REAXIS® C3002EXP

- Delayed Cure Profile:** The unique composition of REAXIS® C3002EXP is shown to promote a cure delay that cannot be attained with the industry standard organotin, dibutyltin dilaurate (REAXIS® C218, DBTDL), as depicted in Figure 1. Formulations containing 0.5 - 0.7 wt% of REAXIS® C3002EXP exhibited rapid increases in viscosity after a 5 - 7 min delay, while similar viscosity increases were observed after only 1.5 - 2 min for DBTDL.
- Minimal Hazard Labels:** The GHS classifications for this product include Acute Tox. 4 and Skin Irrit. 2 making it a safe alternative to industry standard organotin catalysts.
- Versatility & Ease-of-Use:** Exceptional performance in formulations for rigid and flexible foams, aromatic isocyanate-based elastomers, coating and adhesives that require a user-friendly low-viscosity additive.



**FIGURE 1.** Viscosity cure profile for a 2-part aromatic isocyanate-based urethane elastomer formulation.