

**CATALYSIS**

# Shelf-Life Effects on Catalyst Reactivity in Polyurethanes

## Reaxis Catalysts

### BISMUTH

- REAXIS®C716
- REAXIS®C726
- REAXIS®C739E50

### TIN

- REAXIS®C216
- REAXIS®C218
- REAXIS®C320
- REAXIS®C321
- REAXIS®C333E50

The choice of metal-based catalyst can have a large influence on shelf-life stability. Organotin catalysts provide the best shelf-life stability in 2 part polyurethane systems, typically attaining the desired 12-month stability. On the other hand, use of standard bismuth carboxylate-based catalysts tends to decrease shelf life, to 3-4 months. Reaxis has developed a new bismuth catalyst, REAXIS® C739E50 that gives the desired 12-month shelf-life stability. The data below looks at shelf-life in a 2 component MDI/polyether based polyurethane from the perspective of reactivity (gel times).

### ACCELERATED SHELF-LIFE AT 50°C FOR VARIOUS CATALYSTS

