

Technicure D5

Founded in 2003, GenieChem was created with the sole purpose of addressing the needs of the plastics industry supplying speciality process aids and release agents.

As the business has grown and expanded over recent years, we have diversified into many different industries but still try to focus on speciality products.

Our focus is to work with our customers openly, honestly and closely to help make their business successful.

Technicure® D-5 is one of the finer of several pulverized grades of dicyandiamide containing more than 1% fumed silica as a flow control agent to inhibit clumping and improve flow. Typically used with epoxy resins (EEW 190) between 6-8phr, the reactivity of dicyandiamide increases inversely proportional to the particle size.

Additionally, dicyandiamide tends to react with epoxies at higher temperatures, >180C, unless an accelerator is used. Accelerators that have minimal effect on latency while decreasing the activation temperature to less than 100C can be used. Some suggested accelerators for D-5 include Technicure LC-80, Technicure LC-100 any of the substituted ureas, including Technicure MDU-11, Technicure PDU-17 or Technicure TDU-20. These accelerators will decrease the activation temperature of D-5, without compromising, but enhancing performance properties.

Typical Properties:

- Appearance: White to Off White Powder
- Average Particle Size: 5 micron
- (90%) <10 micron
- Melting Point: 207-211C
- Moisture Content, Max: 0.5%
- Assay: >99%

Advantages:

- Long Pot Life with epoxy resins
- Easily Accelerated
- High Tg's
- Excellent Adhesion to a variety of substrates
- Used in Powder Coatings, Prepregs as well as Adhesives

