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Terachem[®] 60-7003 Molecular Sieve Paste Solvent-Free Moisture Scavenger for Polyurethanes and Polyaspartics

TYPICAL CHARACTERISTICS

Appearance	White Paste
Odor	Castor Oil Odor
Weight Per Gallon, Lbs @25°C	9.9
Flash Point (P-M).....	>482°C.
Viscosity @25°C, mPa·s.....	30,000 – 40,000

COMPATIBILITY

A 50% dispersion of molecular sieve in castor oil, Terachem[®] 60-7003 acts as a moisture scavenger for formulations of polyurethane and polyaspartic coatings systems. The molecular sieve is a zeolite A type that is compatible in urethane and aspartic systems. The zeolite is described as potassium calcium sodium aluminosilicate with a pore opening of 3Å, a size that is best designed for use as a moisture scavenger in urethanes.

APPLICATIONS

Terachem[®] 60-7003 is a highly effective moisture scavenger for urethane and aspartic systems. The product has a high adsorption capacity and is efficient even at very low moisture levels. Moisture content in polyurethanes can result in entrapped air that, when released, can cause bubbles, pinholes, blisters, and other film surface defects. In polyaspartics, even a very low content of moisture can affect the isocyanate-amine reaction, causing poor film formation and surface defects. The formulated synthetic crystalline metal aluminosilicates provide a high surface area with uniform pore diameters, and water is adsorbed preferentially to other compounds in the coating formulation. Viscosity instability, gassing, gelation, and other problems are minimized using Terachem[®] 60-7003 molecular sieve paste.

KEY FEATURES

- Liquid dispersion is easier to use.
- Efficient and effective moisture scavenger.
- Helps prevent gassing during storage.
- Low toxicity.

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RECOMMENDED USE LEVELS

The amount of Terachem® 60-7003 molecular sieve paste used in a formulation is based on the measured water content of the ingredients. In general, the quantity is about 10-30 times the measured water content of the formulation ingredients. This level of use reduces the vapor pressure of water below the threshold vapor pressure of the molecular sieve. Mix before use. The formulator must conduct experimental trials to determine the appropriate level of use in each formulation before commercial use of Terachem® 60-7003. Suggested formulations and guidance on use is available from Pflaumer's Technical Service.

SAFETY, STORAGE, AND HANDLING

Store Terachem® 60-7003 molecular sieve paste in tightly sealed containers. Keep storage temperatures above freezing. Shelf life of product is 12 months from date product is received in original closed containers and stored at room temperature. Mix before use. Consult SDS before use.

CONTAINER SIZES

5 Gallon Pails	45 Lb/20.4 Kg Net Weight
55 Gallon Drums	500 Lb/226.8 Kg Net Weight
275 Gallon IBC Tote	2500 Lb/1134 Kg Net Weight

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