



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, °C. (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 1K and 2K urethanes as well as with commonly used isocyanates. The zeolite is described as potassium calcium sodium aluminosilicate with a pore opening of 3Å, a size that is typically used as a moisture scavenger in urethanes.

APPLICATIONS

Terachem® 60-7003 is a highly effective moisture scavenger for 1K and 2K polyurethane systems and 2K polyaspartic systems. The product has a high absorption 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 absorbed preferentially to other compounds in the coating formulation. Viscosity instability, gassing, gelation, and other problems are minimized using Terachem® 60-7003 molecular sieve paste.

The information contained herein is to the best of our knowledge true and accurate and any suggestions are made without guarantee, express or implied, since the conditions of use are beyond our control. Pflaumer Brothers, Inc. disclaims any liability incurred in connection with the use of these data or suggestions.

KEY FEATURES

Liquid dispersion is easier to use.

Efficient and effective moisture scavenger.

Helps prevent gassing during storage.

Low toxicity.

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

The information contained herein is to the best of our knowledge true and accurate and any suggestions are made without guarantee, express or implied, since the conditions of use are beyond our control. Pflaumer Brothers, Inc. disclaims any liability incurred in connection with the use of these data or suggestions.