

Dri-Aid™ 50

Moisture Scavenging Additive for Polyurethanes, Polyurea, and other systems

Dri-Aid™ 50 is a moisture scavenging additive that reduces or eliminates the negative effects of moisture on polyurethane and polyurea formulations. The product is a blend of molecular sieves with an approximate 3A pore size dispersed in low moisture castor oil. It can be added to formulations to eliminate the need for vacuum stripping and also provided in-the-can protection from moisture and helps protect the formulation from atmospheric humidity and moisture in substrates that the formulation may be in contact with during application and curing.

Dri-Aid™ 50 has been formulated to have reduced settling and to prevent hard-packing for ease of use and to give a long shelf-life. This formulation is a general purpose product with wide application. SP&S can supply versions with higher molecular sieve concentration or based on other polyols, resins, or plasticizers if that would be helpful. Please contact us for information about other variants that we can supply.

PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Appearance	Beige, semi-translucent semi-paste	
Hydroxyl Equivalent weight	680 - 720	
Density, g/cm ³	1.25	ASTM E-201
Viscosity at 25°C, cps	25,000	ASTM D-2393
Sieve Pore Size	approx. 3 Angstroms	
Water absorption, Wt%	12% at 20°C and 50% Relative Humidity	
Particle Size / Grain Fineness	0.005 mm	DIN 53 203
Flash point	> 110°C (>230°F)	

SUGGESTED PROCESSING GUIDELINES:

Dri-Aid™ 50 is compatible with most polyols, amines, and even many epoxy resins. Typical usage levels are 1% - 10% by weight depending on the expected moisture present in the system. The molecular sieves in the additive will begin absorbing moisture as soon as the paste is added to your formulation. The molecular sieves typically reach about 80 – 90% of their maximum absorption potential within 24 – 48 hours after addition, and will then continue to absorb more moisture over time until fully saturated. After addition of the additive for the molecular sieves to have

Dri-Aid™ 50 is resistant to settling and to hard-packing, but should be checked prior to use and re-mixed if any separation is observed.

STORAGE GUIDELINES:

Store this material in a clean, cool and dry environment in its tightly closed original container. Dri-Aid™ 50 may settle or partially separate during shipment or storage, and is typically easy to re-mix manually or with a drill mixer. Avoid exposure to high humidity and tightly re-seal after use to maintain its effectiveness. It should be stored at -15°C – 40°C (59°F to 104°F), but is likely to be unaffected by short term exposure to

higher or lower temperatures. If the recommended storage conditions are observed, this product will have a minimum shelf-life of 24 months from the date of shipment.

HANDLING PRECAUTIONS:

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

PERSONAL HYGIENE:

Dri-Aid™ 50

Warning! May cause eye irritation. Prolonged or repeated skin contact may cause irritation, may cause allergic skin reaction. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

FIRST AID

In case of contact:

Skin – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather.

Eyes – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention.

Inhalation - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

Ingestion - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER:

IMPORTANT: The following supercedes Buyer's documents. **SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Specialty Polymers & Services, Inc. (SP&S)
27822 Fremont Court
Valencia, CA 91355
www.spolymers.com

Tel - 661-294-1790
Fax - 661-294-0640
info@spolymers.com