

## TECHNICAL DATA SHEET

### PremARCTM Aliphatic 70 Urethane Binder

#### Description

PremARCTM Aliphatic 70 Urethane Binder a 100% solids, aliphatic isocyanate based, moisture cure binder for use in the construction of bonded rubber granule type running tracks, athletic, and safety surfaces. PremARCTM Aliphatic 70 Urethane Binder exhibits fast reactivity and cure rates compared to those of conventional aliphatic binder products making it ideal for repairs and reconsolidation of existing urethane bonded EPDM granule surfaces. PremARCTM Aliphatic 70 Urethane Binder exhibits excellent color fastness and exterior durability allowing use of light color EPDM granules without the objectionable yellowing encountered when using MDI and TDI binders. PremARCTM Aliphatic 70 Urethane Binder is a primary skin irritant and can cause sensitization dermatitis. Avoid skin contact and wear proper protective equipment at all times when handling PremARCTM Aliphatic 70 Urethane Binder. Consult SDS before use and observe all recommended safety and handling practices.

#### Applications

Under normal conditions of installation, PremARCTM Aliphatic 70 Urethane Binder for granular rubber athletic surface products provides excellent work life while achieving rapid cure during patching and reconsolidation processes. PremARCTM Aliphatic 70 Urethane Binder for granular rubber athletic surface products is designed to cure by reaction with atmospheric moisture. Cure rate is accelerated by high humidity and temperatures and retarded by low humidity and low temperatures.

Under conditions of high temperature and low humidity, water misting of the applied surfaces immediately after installation will prevent the PremARCTM Aliphatic 70 Urethane Binder from draining off the granular rubber components. PremARCTM Aliphatic 70 Urethane Binder as supplied has a work life suitable for use patching and refinishing existing safety surfaces.

**CAUTION:** Any colored EPDM granule mixture used with PremARCTM Aliphatic 70 Urethane Binder should be evaluated for color change and cure rate before installation. Surfaces to be recoated or reconsolidated should be test patched to evaluate cure and compatibility with the existing surface conditions.

#### Storage

PremARCTM Aliphatic 70 Urethane Binder should be stored in cool, dry surroundings. Avoid prolonged storage at temperatures above 90°F or below 50°F. Under conditions of proper storage, storage life of the product in original, factory sealed containers is 12 months.

#### Properties

##### **Typical Physical Characteristics:**

Appearance: Water clear viscous fluid  
Density: 8.69 lbs./gal.  
Viscosity: 3680 cps  
% Free NCO: 7.78%

##### **Physical Properties of Cured Films:**

Tensile Strength ( ASTM D 412): 1837 psi  
Elongation (ASTM D 412): 175%  
Die C Tear(ASTM D 624): 334 pli

#### Handling

Wear proper protective equipment at all times. Avoid contact with skin and eyes. In the event of eye contact, flush eyes thoroughly with water and seek medical attention. Consult SDS before handling and observe all recommended safety and handling practices. Pressure can build up in new and previously opened containers, open all containers carefully. Protect open containers from moisture. Dispose of contaminated materials and empty containers in accordance with Federal, State, and Local regulations.

#### Customer Notice

ARC encourages its customers to review their application of ARC products from the standpoint of human health and environmental quality. To help ensure that ARC products are not used in ways for which they were not intended or tested, ARC personnel will assist customers in dealing with ecological and products safety. Your ARC sales representative can arrange the proper contacts.

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**NOTICE:** The information and data contained herein do not constitute sales specifications. The product properties may be changed without notice. No liability, warranty or guarantee of product performance is created by this document. It is the Buyer's responsibility to determine whether ARC products are appropriate for Buyer's use and to ensure that Buyer's workplace and disposal practices are in compliance with applicable laws and regulations. No freedom from any patents owned by ARC or other industrial or intellectual property rights is granted or to be inferred.



**American Recycling Center, Inc**  
655 Wabassee Drive, Owosso, MI 48867  
(989) 725-5100 [www.americanrecycling.com](http://www.americanrecycling.com)