

TECHNICAL DATA SHEET

PremARC® 80-100 Urethane Binder

Description

PremARC® 80-100 is a single component prepolymer designed to be used as a moisture cure material for binding rubber crumb. It is specifically designed for application on playgrounds and other sport surfacing using appropriate recycled rubber, EPDM and TPV granules in 80-100°F (27-38°C) weather conditions.

Application

Cure Profile

PremARC® 80-100 is a moisture curing prepolymer designed as a binder for rubber granules. The best application temperature is from 80°F (27°C) to 100°F (38°C). Typically there is enough moisture in the rubber crumb to ensure complete cure. Do not apply over damp surfaces or when rain is imminent. Surface and ambient temperatures must be at least 45°F (7°C). The ratio of granules to binder depends on the end use requirements and the crumb mesh size. Sufficient testing should be done prior to production to determine the granule to binder ratio. Substrates must be clean and free from dust, oil, and grease.

UV Stability

As with any urethane based on aromatic isocyanates, this product is not UV stable and may show discoloration after exposure to direct sunlight. This effect is magnified when using urethanes of vibrant color's or when used in tandem with rubber granules of lighter or more vibrant shades. Mechanical properties are not impacted. (laboratory and field testing are strongly recommended)

STORAGE

Binder must be protected against humidity and stored above 50 °F(10°C). The ideal storage temperature is in the range of 59-77 °F(15-25°C). Higher storage temperatures over a longer period of time can shorten the shelf life. At ideal storage conditions, the material can be stored for six months in the original unopened packaging. Opened drums or totes should be used quickly.

Precaution

Prior to application, the user *must* read and become familiar with the risks and hazards associated with the use of this product. Adherence to and observation of proper safety techniques cannot be overemphasized. For any information, please consult your American Recycling Center, Inc. sales representative

please read the SDS carefully before use.

Typical Properties

% NCO	10.3 – 10.7
Brookfield Viscosity @ 25o C, cps	2,500 – 4,500
Appearance	amber liquid

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.

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.



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