

VORAMER MR 1099

Isocyanate

Description

VORAMER* MR 1099 is a specially formulated Prepolymer of MDI and TDI with superior performance properties designed for use with rubber granulate. It is specifically designed for application on in-situ outdoor running tracks, playgrounds and other sports surfacing that require a longer open / cure time when used as a binder for appropriate recycled rubber and EPDM granules. VORAMER MR1099 does not support fungal growth. The typical amount of free TDI in VORAMER MR 1099 < 1% by weight.

Typical Component Properties

	Units	Values	Test Method
NCO content	%	9.5	ASTM D 5155
Viscosity, 25 °C	Cps	4,000	ASTM D 4889
Specific Gravity, 25 °C		1.1	ASTM D 891
Elongation at break ⁽¹⁾	%	100	ASTM D 412 A
Tensile	psi	66	ASTM D 412 A
Open time	Minutes	60	ASTM D 412 A

1. Tiles were prepared using EPDM granules at 85% by weight and 15% by weight of Voramer MR 1099. The tiles were allowed to cure for 5 days at 25 °C and 50 Relative Humidity prior to evaluation.

Recommended Process Conditions

Surface and ambient temperatures must be at least 70 degrees F. and rising. Do not apply over wet or damp surface. Do not mix or apply when rain is imminent or falling. Substrate must be free of dust, oil, and grease. Applications over concrete or asphalt require use of a primer. Ambient temperature and relative humidity are critical to product reaction. Consult with American Recycling Center whenever conditions of very high or low temperatures and/or very high or low relative humidity is present or anticipated.

Handling and Storage

	Units	Limits
Storage temperature	°C	15-21
Storage stability / Shelf life ⁽¹⁾	months	6

1. Stored in the original sealed drums in a dry place at the recommended temperature.



American Recycling Center, Inc

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Safety Considerations

Material Safety Data (MSD) sheets are available from The American Recycling Company. MSD sheets are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. MSD sheets are updated regularly, therefore, please request and review the most current MSD sheet before handling or using any product.

Customer Notice

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

Revision Date: 04-26-05

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The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute and other warranty express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.



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