

# Technical Data

## Tru-Motion® H3168 Aliphatic Moisture Cure Binder

Tru-Motion® H3168 is a 100% solids, aliphatic isocyanate based, moisture cure binder for use in construction of bonded rubber granule type running tracks, athletic, and safety surfaces. Tru-Motion® H3168 exhibits reactivity and cure rates similar to those of MDI based binders resulting in installation and handling characteristics typical of these systems.

Tru-Motion® H3168 exhibits excellent color fastness and exterior durability allowing use of light colored EPDM granules without the objectionable yellowing encountered when using MDI and TDI binders. In additions, Tru-Motion® H3168 exhibits improved resistance to deterioration by water and pool chemicals, making it the surfacing material of choice in areas subject to water and chemical immersion.

Tru-Motion® H3168 is a primary skin irritant and can cause sensitization dermatitis. Avoid skin contact and wear proper protective equipment at all times when handling Tru-Motion® H3168. Consult MSDS before use and observe all recommended safety and handling practices.

### PHYSICAL CHARACTERISTICS:

Appearance:	Water clear viscous fluid
Density:	8.5-8.7 lbs./Gal.
Viscosity:	3,500-4,000 cps
% Free NCO:	6.8-7.2 %
% Solids by Wt.:	>99%

### PHYSICAL PROPERTIES OF CURED FILMS:

Tensile Strength (ASTM D 412):	3,000+/-300 psi
Elongation (ASTM D 412):	500 +/-50 %
Die C Tear (ASTM D 624):	260+/-26 pli
Split Tear:	55+/-5 pli

# Technical Data

## **PROCESSING:**

Under normal conditions of installation, Tru-Motion® H3168 binder for granular rubber athletic surface products provides excellent work life while achieving sufficient cure for secondary processing within normal construction cycles.

Tru-Motion® H3168 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 Tru-Motion® H3168 from draining off the granular rubber components.

Under conditions of low temperature and/or low humidity, additions of Tru-Motion® ZA2084 or other catalyst may be made directly to the mix before installation is begun. MarChem also supplies several pre-catalyzed versions of H3168 at different activity levels for this purpose or for use in applications where rapid cure is desired under normal installation conditions.

Tru-Motion® H3168 as supplied has a work life suitable for use in safety surfaces under average conditions of temperature and humidity.

**CAUTION:** Any colored EPDM granule mixture used with Tru-Motion® H3168 should be evaluated for color change and reactivity rate before installation.

# Technical Data

## **SAFETY AND 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 MSDS before handling and observe all recommended safety and handling procedures.

Pressure can build up in new and previously opened containers, open all containers carefully.

Protect open containers from moistures.

Dispose of contaminated materials and empty containers in accordance with Federal, State, and Local regulations.

## **PACKAGING:**

Tru-Motion<sup>®</sup> H3168 is available in 55 gallon closed head drums with a net weight of 450 lbs. and 5 gallon pails with a net weight of 43 lbs. Returnable and one way 250 gallon mini bulk containers are available on a special order basis.

## **STORAGE:**

Tru-Motion<sup>®</sup> H3168 should be stored in cool, dry, surroundings. Avoid prolonged storage at temperatures over 90°F or below 50°F. Under conditions of proper storage, storage life of the product in original, factory sealed containers is 12 months.