



TERACURE® M-68 MDI POLYISOCYANATE

Aromatic Polyisocyanate for 3-Component Polyurethane Polymer Concrete

With Extended Working Time

“Patent Pending”

TYPICAL CHARACTERISTICS

Appearance .	Dark Brown Liquid
Flash Point, °C. (P-M)	199
Density (25°C.)	1.22
NCO Content, Wt%	31.2
Odor	Earthy, Musty Odor
Equivalent Weight	134.6
Viscosity @25°C, Cps	90-100

COMPATIBILITY

Teracure® M-68 is an aromatic polyisocyanate based on diphenylmethane diisocyanate. The product is designed for use in 3K polyurethane polymer concrete formulations as Part B.

APPLICATIONS

Polyurethane polymer concrete based on Teracure® M-68 is designed for application as a topping onto concrete floors where cleanliness and durability are critical. Urethane polymer concrete flooring systems formulated with Teracure® M-68 provide performance characteristics which include resistance to impact, abrasion, aggressive chemicals, acid, and thermal shock.

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Teracure® M-68 provides a relatively medium cure for the applicator. The medium cure polyisocyanate, together with a reasonable amount of working time, allows for quick cure plus time for self-leveling and deaeration. Surface defects are reduced, and the formulation can be applied with pin rake followed with a spiny roller. The polymer concrete topping can be built up with sand broadcasting, sweeping up excess sand, then applying a top coat. Teracure® M-68 is capable of being used at application temperatures up to 44°C.

Urethane polymer concrete formulated with Teracure® M-68 is odorless, non-toxic and designed for use in food plant operations making it a perfect solution for food and beverage facilities with extreme hygienic conditions. These conditions require frequent and intensive, steam or hot water and chemically aggressive cleaning which can be tolerated by polymer concrete based on Teracure® M-68.

Trowel grade heavy duty, solid color cementitious urethane floor mortar (1/4" to 3/8" or thicker) based on Teracure® M-68 can be applied with slightly textured non-slip finish for medium to heavy-duty use. Advantages include a temperature range of 40°F to live steam above 240°F, bond strength in excess of concrete. Urethane polymer concrete has a similar coefficient of thermal expansion as traditional concrete allowing movement of the substrate through normal thermal cycling.

Teraflex® Pre-Dispersed Pigments for Polyurethane Polymer Concrete are available in the following colors:

- Tile Red
- Light Grey
- Medium Grey
- Tan
- White
- Dark Grey
- Green
- Blue
- Brown

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- Burnt Orange

FEATURES

One-step, Medium-cure Installations

Water-based

3-component System

Green Chemistry

Zero Voc

No Odor

Up to ½ -inch Thick

Can Be Applied at <5°C

Can Be Applied up to 44°C

Can Be Steam Cleaned

Wide Range of Colors

Easy to Clean with Solvents or Detergents

PROUDUCT USES (For professional use only. Not intended for retail sales.)

Polyurethane Polymer Concrete based on Teracure[®] M-68 MDI Polyisocyanate must be tested in advance in both laboratory and in field trials before use to determine the best formulation and suitability for use and application. Recommended starter formulations are available upon request for specific applications.

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SAFETY, STORAGE, AND HANDLING

Store Teracure® M-68 in tightly sealed containers. Keep storage temperatures above freezing in a range of 15-35°C. Higher temperatures may cause an increase in viscosity. Crystallization may occur below 15°C. Shelf life of product is 6 months from date product is received in original closed containers and stored at room temperature without moisture contamination. The product reacts easily with moisture causing an undesirable increase in viscosity. Consult SDS before use..

CONTAINER SIZES

5 Gallon Pails (50 Lb/22.7 Kg)

55 Gallon Drums (535 Lb/242 Kg)

275 Gallon Totes (2,685 Lb/1,218 Kg)

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