URETHANE PRODUCTS CORPORATION
HIGH PERFORMANCE POLYUREA COATINGS

Patent Pending, No. 09/843,332

UPC 6001M Spray Coating **High Physical Performance 100% Polyurea**

Product Description

UPC 6001M This patented true 100% polyurea eliminates the hydroxyl terminated polyol chain extenders and replaces them with amine terminated chain extenders. This process minimizes the oxygen carbon linkage and promotes a greater degree of resistance against micro bacteria that attack the oxygen linkage in the molecule.

Properties

UPC 6001M is a 100% solids, 2-component, 1:1 ratio material with elongation exceeding 200%. It has superior chemical resistance and excellent physical properties.

Application

UPC 6001M must be applied to the substrate using a plural component spray pump with a minimum of 2000-psi capability at the spray tip and must be heated to a minimum of 140°F. Application temperature range is between 20°F to as high as 200°F.

Rapid set properties

UPC 6000M has an initial set time in 8 to 20 seconds and is tack free within 30 seconds. Return to service time depends on the application but can be as fast as one hour. The rapid set characteristics and high physical properties provides the opportunity for minimal down time.

Usage

UPC 6001M is used as a coating for digester tanks and reactors that require a microbial resistant coating and application that require a true 100% polyurea coating.

Coverage

UPC 6001M is typically applied in continuous coats of 10 mills to 250 mills in thickness but has no limit on the build up thickness.

Coverage Rates Per sq ft (Per Gallon) Est. Subject to substrate condition.
50 Mils = 32 sq ft 80 Mils =20 sq ft 125 Mils = 13 sq ft

PHYSICAL PROPERTIES

Density	ASTM D 1622	70
Hardness	ASTM D 2240	95 A
Tensile	ASTM D 412	2188 psi
Elongation %	ASTM D 412	210
Tear Strength	ASTM D 470	421 lbs / inch
Permeability	ASTM E 96	.077 WVT (264 Hr) 100ºF 90%H

CHEMICAL RESISTANCE
72 HOUR IMMERSION, ASTM D 543

Sulfuric Acid (30%)	No change in appearance
Nitric Acid (40%)	No change in appearance
Sodium Hydroxide (10%)	No change in appearance
Sodium Carbonate (2%)	No change in appearance
Aviation Fuel	No change in appearance
Diesel Fuel	No change in appearance
Mineral Oil	No change in appearance

Warranty information

Testing was performed by an independent testing facility and believed To reliable. However since the data has been obtained under controlled laboratory conditions we can assume no liability for damages resulting from the use of this material. All information given without warranty or guarantee. It is our recommendation that the user perform individual testing.

Urethane Products Corporation • 9076 Rosecrans Avenue • Bellflower • California • 90706 • USA
• Telephone 1-(562) 630-4982 • Fax 1-(562) 630-6974 • Toll Free 1-(800) 913-0062