Technical Data

INTELLATHANE® 520C

DESCRIPTION:

Intellathane® 520C is our latest urea-urethane hybrid coating that almost meets the performance of 100% polyurea's. Intellathane® 520C is our highest % urea hybrid coating available.

UNIQUE PROPERTIES:

Intellathena® 520C originated the use of polyurea-urethane hybrid chemistry. Polyurea chemistry reduces moisture blowing during cure. That means better performance and long term wear properties.

High physical properties: Intellathane® 520C produces a tough membrane with excellent low temperature flexibility and high tensile strength. Substrates coated with Intellathane® 520C have excellent chemical resistance and abrasion properties.

Easy application: The use of polyurea chemistry allows Intellathane® 520C to be applied in lower ambient temperatures and higher relative humidity conditions then other urethane coatings. Intellathane® 520C can be applied in ambient temperatures down to 45 F and in relative humidity up to 99%.

100% solids and fast cure produces a high build membrane in seconds. Intellathane® 520C has over 20 years of proven field performance as the ultimate maintenance coating.

See next page for typical properties

Intellathane INDUSTRIAL POLYMERS
An Accella Brand

ACCELLA POLYURETHANE SYSTEMS

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2500 Adie Road, Maryland Heights, MO
Phone (314) 872-8700 | Fax (314) 872-9750

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TYPICAL PROPERTIES:

Liquid Components:	**A Component**	**B Component**
Viscosity	500 cps	600 cps
Weight per gallon	9.9 lbs.	8.5 lbs.
Ratio by volume	50	50
Cured Resin:		
Gel Time	2-3 seconds	
Shore A	95 A	ASTM D2240
Tensile Strength	2500 psi	ASTM D412
% Elongation	290 %	ASTM D412
Tear, Die C	455 pli	ASTM D264
Tear with geotextile	>600 pli	
Abrasion, 1000 cycles 1KG,H-18	110 mg loss	ASTM C957
Permeability	0.012 perms/60 mils	ASTM E96
Service temperature	-40° F to 250° F	
Specific gravity	1.02	
Color standard	white, black, and grey	
Recoat	0-12 hours	
Full cure	24-48 hours	
Chemical resistance, 7 day spot	no effect	ASTM D1308

10% sulfuric acid, 10% sodium hydroxide, 20% hydrochloric acid, 5% acetic acid, motor oil, diesel fuel, JP-4 jet fuel, antifreeze, automatic Transmission fluid, hexane, xylene, toluene.

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STORAGE AND USE:

Filled and pigmented resins will separate upon storage. Premix the B component prior to use each day.

Urethane resins are sensitive to moisture and must be kept dry at all times. Blanket open drums with nitrogen when in use. Keep unused materials tightly sealed in a dry environment. Store drums between 70° and 90° F.

Intellathane® 520C components are temperature sensitive and will freeze. Should the components freeze they can be heated to 100° F and remixed prior to use. Storage of the A component below 55° F will lead to reduced product performance.

Warning: Do not reseal isocyanate drums if exposed to moisture, pressure may develop and rupture drum.

See MSDS and labels for more information.

Call **Accella Polyurethane Systems** for technical questions. 770-607-0755.

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