

# Technical Data

## INTELLATHANE® 530 90A-F

### DESCRIPTION:

**Intellathane® 530 90A-F** is second generation 100% polyurea technology, offering the best moisture resistance and low temperature properties available. Intellathane® 530 90A-F is used as a chemical resistant and abrasion guard for the protection of steel, concrete, wood, foamed plastics, and polyurethane foam.

### UNIQUE PROPERTIES:

100% solids and fast cure produces a high build membrane in seconds. Intellathane® 530 90A-F has over 20 years of proven field performance as a maintenance coating.

High performance: Intellathane® 530 90A-F produces a tough membrane with excellent low temperature flexibility and high tensile strength. Intellathane® 530 90A-F has excellent chemical resistance and abrasion properties.

High resistance to moisture during cure: Intellathane® 530 90A-F can be sprayed in 100% humidity down to temperatures below freezing without the blowing problems that occur with urethane coatings. That means better performance and long term wear properties.

Low viscosity improves mix efficiency with conventional urethane equipment. That also means better performance in your applications.

Fire retarded to meet UL94 HB and can be used as base coat in class A systems

USDA compliant for use in meat and poultry areas



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## COMMON APPLICATIONS

Secondary containment for fuels, oils, fertilizers, solvents, and chemicals

Protective coating for concrete, steel, wood, foamed plastics, and polyurethane foam

Liner with or without geotextile fabric for ponds, landfills, irrigation.

USDA floor and wall coating

Polyurethane foam protection for tanks, walk-in freezers, containers, trailers, poultry barns

Concrete protection against hydrogen sulfide in manholes and sewer pipes.

Water and waste water treatment plants

Mining operations

Refineries

Food processing plants

Industrial and manufacturing plants



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<b>Liquid Components:</b>	<b>TYPICAL PROPERTIES:</b>	
	<b>A Component</b>	<b>B Component</b>
Viscosity	500 cps	500 cps
Weight per gallon	9.7 lbs.	8.5 lbs.
Ratio by volume	50	50
Shelf life	1 year	2 years
Cured Resin:		
Gel time	3-5 seconds	
Tack free	20 – 30 seconds	
Shore A	90 A	ASTM D2240
Specific gravity	1.02 g/cc	
Tensile strength	2500 psi	ASTM D412
Elongation	300 %	ASTM D412
Tear, die C	435 pli	ASTM D264
Tear with geotextile	> 600 pli	
Abrasion, 1000 cycle., 1 KG, H-18	105 mg loss	ASTM C957
QUV weatherometer	pass 3000 hrs, 313B	ASTM G53
Cold flex, ¼" mandrel	pass -40° F	ASTM D3111
Impact resistance	pass	ASTM D2444
Permeability	0.012 perms/60 mils	ASTM E96
Fire properties	pass UL94 HB	
Service temperature	-40° F to 250° F	
Color standard	white, black, and grey	
Recoat	0-12 hours	
Full cure	12-24 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.

Urea 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® 530 90A-F 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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