

INNOVSEAL - HP100

TECHNICAL DATA SHEET



إنوشيم انترناشونال ش.ذ.م.م

InnoChem International L.L.C.

Waterproofing & Insulation Materials

PRODUCT DESCRIPTION

INNOV SEAL-HP 100 is a new generation of hybrid hot spray coating technology delivers rapid curing, outstanding abrasion resistance, and a seamless finish suitable for diverse applications. This system is free from volatile compounds and is applied using a 1:1 mix ratio with specialized plural-component spray equipment.

PRODUCT DEFINITION

Polyol Component(B) : Hybrid Polyurea Polyol

Isocyanate-Component(A) : Low function prepolymer.

STORAGE & HANDLING

Containers of hybrid system should be kept properly stored indoors in a well-ventilated area under normally factory conditions, at temperatures of 20~25°C.

More detailed information can be obtained from MSDS.

RISKS AVAILABLE

The isocyanate component irritates the respiration system, eyes and skin. This can have allergic reactions if inhaled or when comes in contact with skin. The required measurements indicated in the safety data sheet should be noted during handling of isocyanate. The same procedure should also be applied during handling of the B system (polyol) considering the risk available.

Refer to the Innochem material safety data sheet for this product.

COMPONENT DATA

	Unit	Polyol Component	Isocyanate Component	Standard Method
Viscosity (25°C)	mPa.s	450	800	—
Specific gravity (25°C)	g/ml	1.02	1.11	—
Storage Stability	month	6	6	—

LABORATORY TEST DATA

	Unit	Value	Method
A:B Ratio	Based on volume	100:100	—
Gel time	s	3-7	—
Tack free time	s	10-12	—

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MATERIALS APPLICATION:

Two component polyurea hybrid waterproofing membrane applied using plural-component spray equipment.

MACHINE CONDITION:

Mixing Ratio of Components:	1:1 (volume)	
Component Temperatures:	70 – 75 °C	Depends on weather condition
Component Pressure:	120 – 180 Bar	

ENVIRONMENTAL CONDITIONS

Substrate & ambient temperatures	5° C-35° C	
Substrate Moisture contend	≤4 %	
Relative Humidity	≤85 %	

APPLICATION PHYSICAL PROPERTIES:

Below values were tested on samples produced under controlled conditions. Values will vary with differences in applications (i.e. Ambient conditions, process equipment and settings, material throughput, etc., Therefore, below values should be used as guidelines for purpose of evaluation.

Physical property	Standard	Unit	Value
Shore A Hardness	ASTM D 2240	--	A/94/I
Tensile Strength	ASTM D 412	N/mm ²	14
Elongation	ASTM D 412	%	≥ 320
Tear Strength	ASTM D 624	kN/m	50
Abrasion	ASTM D 4060	Mg loss	110
Full cured	@ 23° C	days	2-3
Colour	--	--	Grey

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APPLICATION METHOD:

Substrate preparations – General recommendations:

The spray systems should only be applied to clean, dry and sound surfaces. Remove all dust, oil, grease and loose rust or any other foreign material to ensure adequate adhesion.

Concrete:

The concrete shall be completely cured (or minimal 28 days). Laitance, release agents and salts need to be removed by high pressure water jetting or sandblasting. Other substrate cleaning guidelines can be consulted via SSPC-SP13, NACE 6 or ASTM D4259

Concrete must have a minimum pull off strength of 1.5 N/mm²

A primer is generally needed to achieve an adequate adhesion. Please respect the recoat window recommendation from your supplier.

Metal/steel:

The metal surface needs to be prepared by means of sand blasting to near white. The surface profile will ensure adequate mechanical adhesion. Solvent cleaning is needed to remove the oil and grease. If priming is needed, this should be done within 8 hours after the sandblasting to prevent any flash rusting.

The surface must be assessed and treated in accordance with ISO 8504 and ISO 8501-1:2007

Top Coats:

The system is not UV resistance. Therefore, a proper top coat is needed for exposed application.

Coverage:

2.0-2.5 Kg/m² for a thickness of approx. 2.0-2.5 mm



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