

IsoCoat HRN 5501 HB

IsoCoat HRN 5501 HB is a two-component hybrid spray coating applied at a one-to-one volume ratio. It is a 100% solids, rapid curing, exothermic, polyurea hybrid lining. IsoCoat HRN 5501 HB can be built up to any thickness, but typically no thinner than 40 mils.

APPLICATIONS

- Cargo and Utility Vehicles
- Concrete Surfaces
- Emergency Equipment linings
- Truck Bed & Trailers Applications
- Various OEM Applications

PRODUCT ADVANTAGES

- 100% Solids
- Can be used during the fall and winter months during colder temperatures
- Can be used during the spring and summer months
- Convenient 1:1 mixing ratio by volume
- Excellent impact strength
- Fast cure; can be handled/walked on in less than 1 hour
- Good Tensile and Tear Strength
- Zero VOCs

*Values given are not intended to be used in specific preparation

Component Properties

Color - ISO	Pale yellow
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Color - POL	Black, pale yellow, gray
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Viscosity - ASTM D-2196 - 74°F, ISO	900 - 1300 cps
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Viscosity - ASTM D-2196 - 74°F, POL	500 - 1000 cps
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Weight per gallon - ISO	9.3 - 9.6
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Weight per gallon - POL	8.2 - 8.5
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Reactivity Profile

Ratio by Volume - ISO:POL	1:1
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Sprayed Gel Time	3 Seconds
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Sprayed Tack Free Time	5 Seconds
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Full Cure	24 Hours
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Recoat Window	24 Hours
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Typical Physical Properties

Hardness - ASTM D2240 - Shore D	50 Shore D
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Tear Strength - ASTM D624, Die C	250 pli
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Tensile Modulus - ASTM D412	16500 psi
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Tensile Strength - ASTM D412	1300 psi
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Elongation - ASTM D412	70 %
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RECOMMENDED HANDLING INSTRUCTIONS

Always mix/roll POL side prior to use to ensure a homogenous product.

IsoCoat HRN 5501 HB is a fast set polymeric material designed to be spray applied from high pressure plural component heated equipment. It cannot be hand mixed for application. Typical equipment for application includes: Graco E-30, E-XP, H-XP, H-20/35, H-40 or equivalent sprayed through a Fusion MP or AP, GX-7, Probler P-2 or equivalent gun. Recommended settings for pressure are 2000 psi and 150° F for all temperatures. Please contact Isotec® for any other machine or application questions.

IsoCoat HRN 5501 HB can be purchased in:

- 5 gallon pail kits
- 15 gallon pony drum kits
- 55 gallon drum kits
- 275 gallon tote kits

When finishing application of coating the next day:

Lightly abrade the sprayed surface to remove gloss. Remove dust and clean surface with a solvent such as acetone or isopropyl alcohol. Allow solvent to dry for 30 minutes before spraying the coating. Do not spray past the area that has been prepared.

STORAGE

This product must be stored in tightly closed containers and protected from contamination with moisture and foreign materials, which can adversely affect processing. IsoCoat HRN 5501 HB Iso will react with water to form ureas and carbon dioxide gas, which may cause sealed containers to expand and rupture. IsoCoat HRN 5501 HB Pol is hygroscopic and if not kept in a tightly closed container protected from moisture, it can cause the final product that is sprayed to be foamy in appearance. Partially filled containers should be blanketed with dry nitrogen after use.

Storage temperatures should be maintained between 20° to 35°C (68° to 95°F) for IsoCoat HRN 5501 HB Iso. The Iso must not be allowed to freeze. Exposure to temperatures less than 20°C (68°F), even for short periods of time, can result in the formation of solid material in the Iso. IsoCoat HRN 5501 HB Pol can be stored between 20° to 48°C (68° to 120°F) while not in use.

SAFETY

- Refer to the product SDS for all relevant safety information.
- Use only in well-ventilated areas.
- Wear chemically resistant rubber gloves, safety glasses, and an apron.
- Avoid prolonged or repeated contact with skin.
- In case of skin contact, wipe affected area with isopropyl alcohol, followed by soap and water.
- In case of eye contact, flush eyes with water for 15 minutes and consult a physician.
- If swallowed or comes into contact with eyes, seek medical attention immediately.

Date Modified 6/13/2023

Since Seller exercises no control over Buyers application or use of the product manufactured by Seller ("product") and since materials used with the product may vary, it is understood that:

- THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OR MERCHANTABILITY OR FOR ANY PARTICULAR PURPOSE. While all data presented in Seller's technical data sheet is based on the best information available to Seller and believed correct, such data is not to be construed as a warranty that the product will conform to such specifications. Such technical data sheets are subject to change without notice. Reported laboratory test results of fire redundancy in no way relates to the actual performance under fire conditions. Since all urethane systems are organic, they will burn.
- Reported laboratory test results of the color stability in no way relates to the actual performance upon exposure to light sources. Since all aromatic urethanes experience color degradation upon ultraviolet light exposure, Seller shall not be liable for any damages resulting from ultraviolet light color degradation of any aromatic urethane systems manufactured or sold by Seller.
- The liability of the Seller shall not exceed the purchase price and the Buyer shall not be entitled to nor the Seller be liable for any consequential, incidental, indirect or special damages resulting in any manner from the furnishing of the product.

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