

## IsoCoat HRN 7031

IsoCoat HRN 7031 is a 100% solids, VOC-free, plural-component, hybrid polyurethane/ polyurea elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. IsoCoat HRN 7031 is based on a mixture of amine and hydroxyl terminated polyether resins and chain extenders and MDI prepolymers. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish for a wide range of applications.

### APPLICATIONS

- Architectural Foam
- Automotive Accent pieces
- Foam Strengthening
- Theming
- Truck beds & steel coating

### PRODUCT ADVANTAGES

- Resistant to many chemicals
- Seamless and flexible

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

### Component Properties

Color - ISO	Light Yellow
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Color - POL	Black
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Specific Gravity - 74°F, ISO	1.145 - 1.165
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Specific Gravity - 74°F, POL	.95 - 1.15
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Viscosity - ASTM D-2196 - 74°F, ISO	580 - 650 cps
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Viscosity - ASTM D-2196 - 74°F, POL	320 - 420 cps
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### Reactivity Profile

Ratio by Weight - ISO:POL	1.15:1
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Ratio by Volume - ISO:POL	1:1
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Gel Time	4 - 7 Seconds
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Sprayed Gel Time	3 - 4 Seconds
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Sprayed Tack Free Time	6 - 7 Seconds
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Tack Free Time	6 - 14 Seconds
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### Typical Physical Properties

Hardness - ASTM D2240 - Shore D	51 Shore D
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Tear Strength - ASTM D624, Die C	380 pli
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Tensile Strength - ASTM D412	2800 psi
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Elongation - ASTM D412	110 %
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### RECOMMENDED HANDLING INSTRUCTIONS

Isotec® International's Recommended Application and Handling Instructions

- 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.

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

IsoCoat HRN 7031 is a very 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. Minimum recommended settings are 1800 psi for pressure and 145° F for all temperatures. Please contact Isotec® for any other machine or application questions.

## STORAGE

Protect ISO and POL side from moisture. If the ISO side material is exposed to moisture, including moisture from the air, it will release CO<sup>2</sup> gas. If placed in a sealed container, this gas can cause a dangerous build up of pressure potentially resulting in injury or death. If the POL side is exposed to excess moisture and then applied it may cause weak or foamed material to be applied.

## SAFETY

-Refer to the product SDS for all relevant safety information.

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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 MECHANABILITY 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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