

## IsoCoat URN 5143

IsoCoat URN 5143 is a 100% solids, fast set, 2 component elastomeric Polyurethane coating. This seamless system exhibits extraordinary performance over both rigid and flexible substrates. This coating creates an extremely tough, chemical and abuse resistant finish for a wide range of applications.

### APPLICATIONS

- Aquariums
- Cold storage areas
- Concrete or earthen containment areas
- Cooling tower liners
- Fertilizer plants
- Floor and wall systems
- General industrial plants
- Mechanical rooms
- Petrochemical plants
- Pipe coatings (interior/exterior)
- Pulp and paper mills
- Tank Linings
- Truck beds & steel coating
- Waste water tanks and facilities

### PRODUCT ADVANTAGES

- Application possible from 40° F to 150° F
- Fast cure; can be handled/walked on in less than 1 hour
- Fungus resistant
- Higher Elongation & Greater Flexibility
- No VOC's
- Resistant to many chemicals
- Resistant to thermal shock
- Seamless & can applied at any thickness
- Very fast gel time

### RECOMMENDED HANDLING INSTRUCTIONS

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

IsoCoat URN 5143 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.

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.

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

### Component Properties

Color - ISO	Light Yellow
Color - POL	Black, Custom
Specific Gravity - 74°F, ISO	1.11 - 1.19
Specific Gravity - 74°F, POL	1.04 - 1.06
Viscosity - ASTM D-2196 - 74°F, ISO	250 - 315 cps
Viscosity - ASTM D-2196 - 74°F, POL	560 - 760 cps

### Reactivity Profile

Ratio by Weight - ISO:POL	1.1:1
Ratio by Volume - ISO:POL	1:1
Gel Time	8 - 12 Seconds
Sprayed Gel Time	6 Seconds
Tack Free Time	10 - 14 Seconds
Full Cure	72 Hours

### Typical Physical Properties

Flash Point	>200 °F
Hardness - ASTM D2240 - Shore A	85 - 90 Shore A
Hardness - ASTM D2240 - Shore D	33 - 35 Shore D
Tear Strength - ASTM D624, Die C	210 pli
Tensile Modulus - ASTM D412	1750 psi
Tensile Strength - ASTM D412	1450 psi
Elongation - ASTM D412	160 %

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.

Protect ISO side from prolonged exposure to temperature below 60°F (15°C). Storage below this point may cause crystals to form and settle. This can negatively effect coating performance and cause applications issues. Contact Isotec® for more information.

## 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.

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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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