

## IsoCoat HRN 7004 FR

IsoCoat HRN 7004 FR is a 100% solids, state-of-the-art, VOC-free, plural-component, hybrid, aromatic coating. This seamless system exhibits extraordinary performance characteristics. This coating achieves an extremely tough, chemical and abuse resistant finish for a wide range of applications. This coating is also available in a UV version.

### APPLICATIONS

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

### PRODUCT ADVANTAGES

- Application possible from 40° F to 150° F
- Can be top coated for UV or chemical resistance
- Fast cure; can be handled/walked on in minutes
- Fungus resistant
- No VOC's
- Resistant to many chemicals
- Resistant to thermal shock
- Seamless & can be applied at any thickness
- Slower reactivity & better substrate wetting
- Smooth Finish

### RECOMMENDED HANDLING INSTRUCTIONS

IsoCoat HRN 7004 FR 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.

Please contact Isotec® for any other machine or application questions.

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

### Component Properties

|                                     |                     |
|-------------------------------------|---------------------|
| Color - ISO                         | Clear/ Light Yellow |
| Color - POL                         | Black/various       |
| Specific Gravity - 74°F, ISO        | 1.165 - 1.185       |
| Specific Gravity - 74°F, POL        | 1.055 - 1.075       |
| Viscosity - ASTM D-2196 - 74°F, ISO | 200 - 400 cps       |
| Viscosity - ASTM D-2196 - 74°F, POL | 1750 - 2250 cps     |

### Reactivity Profile

|                           |                 |
|---------------------------|-----------------|
| Ratio by Weight - ISO:POL | 1.1:1           |
| Ratio by Volume - ISO:POL | 1:1             |
| Gel Time                  | 20 - 28 Seconds |
| Sprayed Gel Time          | 15 Seconds      |
| Tack Free Time            | 28 - 35 Seconds |
| Full Cure                 | 72 Hours        |

### Typical Physical Properties

|                                  |                 |
|----------------------------------|-----------------|
| Flash Point                      | 200 °F          |
| Hardness - ASTM D2240 - Shore D  | 60 - 65 Shore D |
| Tear Strength - ASTM D624, Die C | 347 pli         |
| Tensile Modulus - ASTM D412      | 1200 psi        |
| Tensile Strength - ASTM D412     | 3030 psi        |
| Elongation - ASTM D412           | 14 %            |

## 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.
- 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 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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