

IsoShield® 3001 UV

IsoShield 3001® UV is a sprayable, VOC-free two-component pure polyurea release coating. Unique properties of this coating are its rapid cure time and its insensitivity to moisture. This coating was specifically designed as a protective coating to be removed at a later date.

APPLICATIONS

- Bath tub protection
- Containment areas
- Earthen containment
- Floating docks
- Gel coat protection
- Tub lining
- Zoo enclosures

PRODUCT ADVANTAGES

- Can be built up to any thickness in one application
- Fast cure; can be handled/walked on in one minute
- Near Instant Gel Time
- No VOC's
- Release from Acrylic
- Release from FRP
- Release from Gel Coat
- Removeable
- Seamless and flexible

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

Component Properties

Color - ISO	yellow
Color - POL	green/blue
Specific Gravity - 74°F, ISO	1.06 - 1.16
Specific Gravity - 74°F, POL	1.0 - 1.05
Viscosity - ASTM D-2196 - 74°F, ISO	700 - 1180 cps
Viscosity - ASTM D-2196 - 74°F, POL	330 - 590 cps

Reactivity Profile

Ratio by Weight - ISO:POL	1.1:1
Ratio by Volume - ISO:POL	1:1
Gel Time - 100 gram sample, 74°F	3 - 10 Seconds
Tack Free Time - 100 gram sample, 74°F	8 - 16 Seconds
Sprayed Gel Time	2 - 3 Seconds
Sprayed Tack Free Time	5 Seconds

Typical Physical Properties

Hardness - ASTM D2240 - Shore A	93 Shore A
Hardness - ASTM D2240 - Shore D	40 Shore D
Tear Strength - ASTM D624, Die C	450 pli
Tensile Modulus - ASTM D412	23.5 ksi
Tensile Strength - ASTM D412	2900 psi
Elongation - ASTM D412	194 %

RECOMMENDED HANDLING INSTRUCTIONS

IsoShield® 3001 UV 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-XP2, equivalent, or better paired with a Fusion MP or AP, GX-7, Probler P-2 or equivalent gun. Minimum recommended settings are 2000 psi dynamic for the spray pressure and 160° F for all temperatures. Please contact Isotec for any other machine or application questions. Ideal spray thickness is between 10 and 20 mils.

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 CO² 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. Always mix/roll ISO and POL side prior to use to ensure a homogenous product.

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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- 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.
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