

IsoCoat NRN 7061

IsoCoat NRN 7061 is a 100% solids, state-of-the-art, VOC-free, plural-component, pure polyurea elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. This inherently sound dampening coating can be applied to be non-slippery and may be used on metal roofs or on foam. This membrane achieves an extremely tough, flexible, 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
- Vehicle Frame & Body Coating
- Waste water tanks and facilities

PRODUCT ADVANTAGES

- Application at 20F to 300 F
- Can be top coated for UV or chemical resistance
- Fast cure; can be handled/walked on in minutes
- Fungus resistant
- Higher Elongation & Greater Flexibility
- 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
- USDA Approved

*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 - 1.15 |
| Specific Gravity - 74°F, POL | 0.90 - 1.15 |
| Viscosity - ASTM D-2196 - 74°F, ISO | 400 - 600 cps |
| Viscosity - ASTM D-2196 - 74°F, POL | 400 - 600 cps |
| % Solids - by Weight | 100 % |
| % Solids - by Volume | 100 % |

Reactivity Profile

| | |
|----------------------------------|----------------|
| Ratio by Weight - ISO:POL | 1.1 - 1 |
| Ratio by Volume - ISO:POL | 1 - 1 |
| Gel Time - 100 gram sample, 74°F | 6 - 15 Seconds |
| Sprayed Gel Time | 10 Seconds |
| Tack Free Time | 8 - 20 Seconds |
| Full Cure | 24 Hours |
| Return to Service - Foot Traffic | 1 Hour |

Typical Physical Properties

| | |
|--|-------------------|
| Modulus -100% - ASTM D638 | 2000 psi |
| Modulus- 300% - ASTM D638 | 1200 psi |
| Flexibility Testing - ASTM D2794 | >160 in*lbs |
| Flame Spread - ASTM E108 | Class A |
| Flame Spread - FMVSS 302 | Pass |
| Flash Point | 200 °F |
| Mandrel Bend - ASTM D522 - 1/4" Mandrel-20 C, 30-50mil Free Film | Pass |
| Mandrel Bend - ASTM D522 - Conical Bend 1/32" Steel panel | Pass |
| Moisture Vapor Transmission (30 mils) - ASTM E96 | 0.02 |
| Percentage Solids | 100 % |
| Hardness - ASTM D2240 - Shore A | 95 Shore A |
| Hardness - ASTM D2240 - Shore D | 50 - 51 Shore D |
| Tear Strength - ASTM D624, Die C | 495 pli |
| Tensile Modulus - ASTM D412 | 17944 - 20729 psi |
| Tensile Strength - ASTM D412 | 3000 psi |
| Elongation - ASTM D412 | 450 % |

| | |
|---|------------|
| VOC | 0 lbs /gal |
| Taber Abrasion Resistance - ASTM D4060 - 1000rev, CS 17 | 220 mg |
| Taber Abrasion Resistance - ASTM D4060 - 1000g, 1000rev, H 15 | 10 mg |
| Chip Resistance - SAE J400 | 10 |

RECOMMENDED HANDLING INSTRUCTIONS

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

Heated Plural Component Equipment, in 1:1 ratio only, such as:
H 2000, H-3500, or H-20/35 series with a GX7, sprayed at a minimum of 2000 psi and 160° F at the gun.

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

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.

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

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