

# GreenThane 70620-BIO

## Biobased Aromatic Urethane Roofing Base Coat



**GSP DOCUMENT NO.:** TDS 2017019

**TECHNICAL DATA SHEET**

### PRODUCT DESCRIPTION

GreenThane 70620-Bio is a single-component, moisture-cured, fire retardant, aromatic polyurethane base coat for polyurethane foam, concrete and single-ply roof systems. This product qualifies as a USDA BioPreferred product for Federal preferred procurement ([www. biopreferred.gov](http://www.biopreferred.gov)).

### SYSTEM DESIGN

This product is a base coat component of Green Shield Products, LLC SP fluid-applied roof coating systems. For more information, contact Green Shield Products, LLC.

### USES

- Polyurethane foam roofs
- Structural concrete roof decks and canopies
- Existing single ply roofs

### LIMITATIONS

- Use with adequate ventilation
- Not intended for use as a topcoat; product is not UV-resistant
- Not intended for ponding water or constant immersion
- Concrete must have a full 28 day cure period prior to coating
- Not compatible with asphaltic compounds
- Not for use with insulating concrete such as Zonolite, Vermiculite, Perlite, etc.
- Substrate temperature must be above 40°F (5°C) and/or below 100°F (37°C), and more than 5°F (3°C) above the dewpoint and rising
- Substrate must be clean, dry, sound and secure
- Product is moisture-sensitive

### PRODUCT COLORS AND PACKAGING

<b>Standard Color:</b>	70620-BIO	Dark Gray
<b>Packaging:</b>	70620-BIO	5 gallon, 55 gallon

### APPLICATION INSTRUCTIONS

Green Shield Products, LLC are to be installed in accordance with instructions in the Green Shield Products, LLC Roof Coating Systems Application Manual.

### MIXING AND THINNING

Read product labels and application instructions prior to use. Product must be mixed. Read container labels, SDS and application instructions prior to mixing. Mix polyurethane material with a variable speed drill utilizing a Jiffy Mixer to suspend any settled pigment and attain a uniform color. Time will vary depending on temperature conditions.

This product has been formulated to be applied without the need of thinning. However, application under certain conditions and with certain equipment may be enhanced by thinning. Please note that thinning will increase VOC content of the mixed coating. Always know local VOC restrictions for coating applications in your area before thinning this product. Do not thin material more than 10%. For compatible thinners and additional mixing contact Green Shield Products, LLC.

**Green Shield Products, LLC**

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[www.greenshieldproducts.com](http://www.greenshieldproducts.com)

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TECHNICAL DATA SHEET

## CURED PROPERTIES

Description	Test Method	Results
Tensile Strength	ASTM D412	800 psi
Elongation	ASTM D412	190%
Permanent Set	ASTM D412	3.1%
Tear Resistance (Die C)	ASTM D1004	130 lbf/in
Water Resistance	ASTM D471	1.2%
Shore A	ASTM D2240	83
Adhesion to Foam	ASTM D903	3.1 pli

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. For further technical information contact Green Shield Products, LLC.

## PRODUCT DATA

Description	Test Method	Results
Biobased Content	ASTM D6866	36%
Weight/Gal	ASTM D1475	11.2 lbs/gal
Weight Solids	ASTM D1353	85%
Volume Solids	Calculated	77%
VOC	EPA Method 24	204 g/L
Flash Point	ASTM D1310	109°F
Recoat Window		1–5 days
Storage		Protected
Shelf Life		6 months

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Note: For further technical information contact Green Shield Products, LLC.

## ADDITIVES

Product No.	Description	Use
GSP 7931	Fast Accelerator	Low-humidity fast accelerator for 70620 Series urethane
GSP 7922	Vertical Additive	Enhances sag-resistant properties
GSP 7986	Odor Mask	Masks offensive odors; vanilla-scented
GSP 7987	Odor Mask	Masks offensive odors; orange-scented

## STORAGE AND HANDLING

Containers of urethane coating should be stored in a cool (75°F, 24°C) area to ensure full shelf life. Keep container closed. Keep away from sources of ignition. To prevent container rupture due to very high temperature, keep away from heat and/or open flames.

## HEALTH AND SAFETY

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

## CLEAN UP

Clean tools and equipment with aromatic solvents such as Xylene, Toluene or MEK.

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