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NANSULATE® BEE PROTECT CLEAR

Thermal insulation, mold and moisture resistant coating. Exterior hive use.

DESCRIPTION:

Clear, nanotechnology-based insulation and mold prevention coating used to insulate beehives. Color: Translucent (ClearCoat) with matte finish.

APPLICATIONS:

- ✓ Wood Hives
- ✓ Plastic Hives

BENEFITS:

- ✓ Insulates hives for more temperate environment.
- ✓ Easy cleanup with soap and water.
- ✓ Breathable does not interfere with normal ventilation.
- ✓ NSF non-food compound registered (R-2)
- ✓ Can be painted over.
- ✓ Can be used over pre-painted surfaces.
- ✓ Resistant to mold and moisture.
- ✓ Provides protection from harmful UV rays.
- ✓ Protects hives from weathering.
- ✓ Easily applied by brush, roller or paint sprayer.
- ✓ Does not contain any potentially harmful antimicrobial additives or biocides.
- ✓ Non-hazardous, water-based.
- ✓ Exhibits outstanding durability with excellent adhesion to concrete, pvc, wood, brick, plastic, and many more substrates.
- ✓ Low VOC.

ORDERING:

PH: 800-767-3998 or +1 239-254-0346 www.nansulate.com/protectbees.htm

www.qes-usa.com

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PRODUCT DATA:

Theoretical coverage rate

Typical applied coat thickness Typical thickness of 1 coat Typical thickness of 3 coats Typical touch dry time for 1 coat Typical full dry time for 3-coat coverage Typical full cure time for 3-coat coverage Shelf life VOC content Viscosity 150 S.F. (13.94 Sq.M.) per 3 coats (recommended coverage) 3-5 wet mils (76-127 microns) per coat 2.5 dry mils (63.5 microns) 7.5 dry mils (190.5 microns) 1 hour 72 hours 30 days 2 years 100 g/L 3500 to 4000 (cps)

PRODUCT TEST DATA:

Cross Hatch Adhesion - ASTM D-3359 Pull Apart Strength - ASTM D-4541 24 Flame Spread/Smoke Developed - ASTM E84 Cla Mold Resistance Testing (ASTM D5590 & ASTM G21) U/V Exposure Pa Accelerated Salt Fog Corrosion Test (GM9540P) Pa Permeability 5 p Thermal resistance (UNI EN ISO 8990:1999) Thermal flow (watts) (UNI EN ISO 8990:1999)

Spectrophotometer testing

0% 5B, edges remain smooth, no flaking 2400-2450 psi Class A 21) Zero or minimal growth Passed 2000 hours Passed 24 cycles, no rust 5 perms/inch @ 23 deg C. 28.98% increase in thermal resistance 34.8% decrease in thermal flow through a substrates, measured in watts Allows through 92% visible light (tested on pane glass)

NSF REGISTRATION

Registered in Non-food compounds program, R-2 category by NSF International. Registration No. 141658 Acceptable for use on structural surfaces or surfaces with the possibility of incidental food contact.

LIMITATIONS:

Do not use as a final floor covering.

Do not install where long-term submersion in liquid or continuous exposure to moisture is a possibility. Do not install over poor surfaces, such as those with flaking paint, grease or other contaminates. Do not allow exterior application to be subject to rain or condensation for at least 72 hours. Do not allow application to be subject to freezing temperatures during first 30 days.

NOTE ABOUT CURE TIME:

The product reaches its full insulating ability after the cure time of approximately 30 days for a 3-coat coverage is completed. Any testing of thermal abilities should be done only after the cure time has completed. Thermal benefits will typically begin to be seen approximately 2 weeks after application, and will continue to improve as the cure time completes.



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