



PREMIUM #3151

HIGH SOLIDS, ADVANCED ACRYLIC ELASTOMER COATINGS

Technical Data

PRODUCT DESCRIPTION

SOLATEK #3151 is manufactured using 100% Acrylic elastomer resins of the highest quality without the addition of plasticizers. Production is rigidly controlled to assure uniformity of quality in every batch of materials. **SOLATEK #3151** is a water-based, high solids elastomeric coating where premium quality acrylic resins are combined with reinforcing laminar pigments, an effective biocide package and non-migrating fire retardants, resulting in superior durability, weatherproofing, ultraviolet resistance, algae/mildew resistance and fire retardancy. **SOLATEK WHITE** and **SOLATEK IR** are highly reflective, permanently flexible "breathing" membranes, allowing moisture vapor from the substrate or building interior to escape while remaining impervious to mass water penetration from the exterior. **SOLATEK #3151 GRAY BASE** is the same high quality formula as the white but in a gray contrasting color for ease of application and quicker dry time and is a cost effective method of securing reinforcing fabric over surfaces prone to structural movement.

BASIC USES

SOLATEK #3151 was developed as a roof recover system or maintenance coating for extending the life of metal, conventional built-up, modified bitumen, concrete, single-ply, sprayed-in-place foam, or composite shingle roofs.

COLORS

SOLATEK is available in White which meets Title 24, ENERGY STAR®, Cool Roof Rating Council (CRRG) and LEED reflectance and emissivity criteria. All other colors are custom matched by TRESKO for the specific application. Color chips or samples must be furnished to TRESKO for all custom colors. It is recommended that dark colors be tinted in **IR** topcoat only.

WARRANTY

SOLATEK #3151 warranties are available for five (5), ten (10), fifteen (15) and twenty (20) year periods. The warranties guarantee the installation against leaks caused by normal weathering. Refer to individual warranty documents for additional information.

LIMITATIONS

Do not proceed with application of coating materials when surface temperature is less than 60°F. No coating shall be applied if weather will not permit it to dry prior to exposure to precipitation or freezing. Dry time should be 24 to 48 hours when coating is applied in the morning and the temperature is 60 degrees and rising. Dry time could be longer depending on temperature and humidity.

TYPICAL PROPERTIES

1. Solids by Weight:
71.97% (±2) [ASTM D1644]
2. Solids by Volume:
59.28% (±2) [ASTM D2697]
3. Weight per Gallon:
12.2 lbs. (±.2) [ASTM D1475]
4. Solar Reflectance:
86% [ASTM E-903]
5. Thermal Emittance:
.90 [ASTM C1371]
6. Tensile Strength:
301 psi [ASTM D2370]
7. Initial Elongation:
331% [ASTM D2370]
8. Permeance:
5.1 U.S. perms [ASTM D1653]
9. Water Swelling:
8.3% [ASTM D471]
10. Weather Resistance:
No cracking or checking [ASTM D4798]
11. Adhesion:
9.6 pli-wet* [ASTMD-903]
12. Tear resistance:
73 lbf/in [ASTM D624]
13. Fungi resistance:
ZERO RATING [ASTM G21]
14. Low Temperature Flexibility:
(1,000 hours) Pass ½" mandrel bend @
-15 F [ASTM 522]
15. Code Approvals:
CLASS A , UBC 15-2, also meets: UL
790, ASTM E108, NFPA 256

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The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product, which is proved to be defective. Any claim of defective product must be received in writing within one year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss, or damage resulting from use of this product.

ADVANTAGES OF



SOLATEK is the most effective, low-cost method of extending the life of new or existing roof surfaces.

1. Low Cost Application:

SOLATEK #3151 can be installed more efficiently and at a fraction of the cost of other roofing systems. No bulky or expensive materials to haul, lift, spread, cut or glue. Simply apply SOLATEK #3151 by brush, roller or spray over the properly prepared roof substrate. Cleanup requires only soap and water. SOLATEK #3151 conforms to all federal and state air pollution standards and VOC regulations.

2. Fast Application:

Roofs can be coated with SOLATEK faster than applying conventional built-up or single-ply systems. Roof temperatures can be reduced in excess of 50°F.

3. High Solids and Resin Content:

The high volume solids of SOLATEK #3151, along with its excellent hide and vertical hold characteristics, allows for faster film build in fewer coats. This enables SOLATEK #3151 to uniformly cover the uneven profile of textured substrates. The high ratio of elastomeric acrylic polymer to filler pigment provides long-term weathering and ultraviolet resistance.

4. Lightweight:

A SOLATEK #3151 roof is lighter than conventional and single-ply systems, putting less stress on the framework of the building. No glue, fasteners or heavy ballasting is required.

5. Permanent Flexibility:

SOLATEK #3151 contains no plasticizers, which may give good initial elasticity but leach out of the coating upon extended exterior exposure. SOLATEK #3151 remains permanently flexible through the use of high grade elastomer acrylic polymer resins.

6. Colorfast:

The acrylic resins utilized in SOLATEK #3151 crosslink under exterior exposure to lock in color and lock out dirt. The topcoat color remains true through years of weathering, while the tight, crosslinked surface effectively repels dirt.

7. Low Maintenance Costs:

With a SOLATEK #3151 roof there is no asphalt to degrade, metal to corrode or seams to come apart. It is formulated to remain flexible to -30°F without cracking under stress, and is impervious to minor ponding water associated with most roofs. When maintenance is required, repairs are easily accomplished using MASTEK ACRYLIC MASTIC and/or additional SOLATEK #3151.

8. Resists Abusive Weather:

SOLATEK #3151 will take abusive weather conditions of all types. Ice, snow, wind driven rain and sand do not penetrate its tough, dense surface under normal conditions.

9. Long Term Fire Protection:

SOLATEK #3151 utilizes non-migratory fire retardants that become an integral and inseparable part of the coating to provide permanent fire retardancy.

10. Reduced Energy Cost:

SOLATEK #3151 WHITE remains white to effectively reflect the sun's heat, SOLATEK IR colors also effectively reflect the sun's heat unlike other dark-colored roofs that retain heat and are subject to ultraviolet degradation. SOLATEK #3151 exceeds ENERGY STAR® & Cool Roof Rating Council Guidelines.

11. Resistance To Foot Traffic:

SOLATEK #3151'S tough finish, combined with its flexibility and bond strength, allows it to easily withstand the stresses of normal roof maintenance traffic. For the ultimate in durability use SOLA-SHIELD #3160.

12. Code Approvals:

SOLATEK #3151 is classified as a Class "A" Fluid Applied Coating System, and as a Class A, B or C Maintenance & Repair System.

13. Warranty Programs:

SOLATEK #3151 is backed by 5, 10, 15 and 20 year non-prorated renewable warranty programs. These guarantee to the Building Owner that the coating system will not leak as result of degradation from normal weathering. All warranty programs are extendable to last for the life of the structure.

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