



NovaTak

Product Description

Basic Use: NovaTak 60 mil pre-applied sheet waterproofing is specially formulated to create a chemical reaction that ionically fuses the butyl rubber membrane to freshly placed concrete, thus creating an inseparable integration between NovaTak and the concrete substrate. NovaTak is a highly durable, non-vulcanized butyl rubber membrane that is very easy to install due to its flexibility and ability to conform to all types of prepared substrates. NovaTak utilizes butyl adhesive tapes that create butyl-to-butyl bonded seams with a tenacious bond that rivals heat welding and makes system repairs quick and easy.

Installation is efficient and reliable with butyl-to-butyl adhesive bonds using NovaTape single-sided tape or NovaTape D double-sided tape at manufacturer marked side laps, end laps, and patches. NovaTak delivers superior performance in harsh conditions without the need for specialized equipment, heat, or power.

Composition: NovaTak is a 60 mil (1.5 mm) sheet that consists of two layers of specially formulated black butyl rubber sandwiching a central reinforcement film of oriented polypropylene (OPP) and protected with a white release liner.

Benefits

- NovaTak creates an ionic fusion to concrete that is many times stronger than traditional pre-applied sheet membranes and does so without the use of any adhesive.
- The flexibility of NovaTak provides the installer with a membrane that is easy to apply, especially to substrates that are irregular or where multiple penetrations may exist.
- NovaTak stays flexible in extreme cold and prevents slumping in high heats, making it easy to apply.
- Prevents lateral water migration by ionically fusing directly to poured-in-place concrete and shotcrete.
- NovaTak does not pre-activate like bentonite when exposed to rain or ponding water, it can withstand long term UV exposure without warping or deforming like HDPE, and it is unaffected by rain, snow, or ice.
- Direct UV, precipitation, pooling water, and heat do not substantially adversely affect the installed system.
- Proven and effective, NovaTak has an over 20-year successful track record of performance on projects around the world.

Limitations

- Limited to underslab and single-sided formwork.
- NovaTak absorbs heat in direct sun and will become very warm to the touch.
- Excessive substrate moisture needs to be removed prior to application.
- Not ideal for sites with soil or groundwater contamination.

Technical Data

Properties: See physical properties table.

Coverages: One roll covers 118 square feet (11 square meters), not including overlaps or waste.

Storage and Handling: Store raised off the floor away from sun and moisture, between 40-90°F (5-32°C), maximum 7 rolls high.

Specification Writer: Contact EPRO before writing specifications on this product. NovaTak Butyl Pre-Applied Waterproofing System should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Please refer to manufacturer's specifications for substrate requirements. Rolls should be inspected for cosmetic damage prior to application.

Application: Please refer to manufacturer's specifications. Side laps, end laps, and cut ends have several seaming options depending on the application.

Installation: NovaTak should be rolled out with the release liner facing the concrete pour. Line up the cut edges and endlaps together and overlap a minimum of 4-inches (100 mm). For side laps, line up top sheet over bottom sheet manufacture applied 4-inch (100 mm) lap guideline.

Seams: Apply either NovaTape 4-inch (100 mm) positive lap seam centered over the seam, or NovaTape D sandwich seam along edge of bottom sheet, remove tape release liner, and cover with top sheet. Remove NovaTak release liner after sheets have been properly seamed.

Reinforced Seams: Extra seam protection is required for hydrostatic conditions and/or when structural shotcrete is utilized. Seams are reinforced by using a NovaTape D sandwich seam within the seam overlap and covering with a NovaTape positive lap seam centered over the top of the seam edge.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Roll Size: 60 mil (1.5 mm), 3'-7" x 32'-9" (1.1 x 10 m), 57 lbs (26 kg)

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.



NovaTak

Equipment

Seaming: 4" heavy seam roller.

Underslab Smoke Testing: EPRO Smoke Test Machine.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was formally known as Novatak by Kingfield Construction Products.

Physical Property

Test Method

Value

| | | |
|---|-------------------------------|--|
| Material | | Butyl |
| Color | | Black |
| Thickness | ASTM D 3767, Method A | 60 mil (1.5 mm) nominal |
| Resistance to Lateral Water Migration | ASTM D 5385 Modified | Pass at 231 ft (71 m) of HH pressure |
| Low Temperature Flexibility | ASTM D 1970 | Unaffected at -20°F (-29°C) |
| Resistance to Hydrostatic Head | ASTM D 5385 Modified | 231 ft (71m) |
| Elongation at Break MD | ASTM D 1970/ D 1970M-15 | 0.83 inches at break |
| Tensile Strength, Film | ASTM D 412 | 1,538 psi (10.6 MPa) |
| Crack Cycling at -9.4°F (-23°C), 100 Cycles | ASTM C 836 | Unaffected, Pass |
| Puncture Resistance | ASTM E 154 | 151 lbs (672 N) |
| Peel Adhesion to Concrete | ASTM D 903 Modified | 7.2 lbs/in. (1,260 N/m) |
| Lap Peel Adhesion | ASTM D 1876 Modified | 9.3 lbf/in. (1,628 N/m) |
| Permeance to Water Vapor Transmission | ASTM E 96, Method B | 0.05 perms (2.8 ng/Pa x s x m ²) |

Dimensions: 3'-7" x 32'-9" (1.1 m x 10 m)

Weight: 57 lbs (26 kg)