



PRODUCT DATA SHEET TUFF-TAPE™

3 pages

DESCRIPTION:

Canadian Construction Products Tuff-Tape™ is a prefabricated laminate consisting of a top layer of closely woven, high strength polypropylene fabric, and an adhesive layer of rubber modified bituminous compound reinforced with a non-woven fiberglass fabric.

PURPOSE:

Canadian Construction Products Tuff-Tape™ is a dual purpose membrane designed to retard reflective cracking between existing road surfaces and paving overlays and to waterproof vertical surfaces. When used as a reflective cracking membrane it bonds to the existing paved surface, waterproofing and inhibiting cracks to paving overlays. When used as a waterproofing membrane it eliminates water infiltration to culverts, backwalls and various vertical surfaces.

WHERE TO USE IT:

As a reflective cracking membrane Canadian Construction Products Tuff-Tape™ is particularly effective when used to inhibit reflective cracking in the longitudinal direction where the dividing line between adjacent road sections at the center, or at the edges, has increased in width. It is equally effective where cracking is in the transverse direction or of irregular occurrence.

As a waterproofing membrane Canadian Construction Products Tuff-Tape™ forms an impenetrable moisture barrier when used to waterproof block, concrete, asphalt, brick or wood. Not recommended for use as a Bridge Deck Waterproofing Membrane.

HOW TO USE IT:

Surface Preparation: Surfaces should be dry and free from dust, dirt, mud, oil, grease and other contaminants. Holes and voids should be patched with a suitable material.

Use of Adhesive:

Canadian Construction Products special adhesive primer (or equivalent) is required. Adhesive should be applied at approximately 0.2 litres per sq.m. for road reinforcement applications and minimum 0.3 litres per sq.m. for waterproofing and load bearing applications.



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Application of Tuff-Tape™ Membrane when used as a reflective cracking system:

The membrane should be unrolled and the release paper removed. The membrane should be positioned and pressed into positive contact with the substrate. Roll ends should be overlapped four 100mm. Apply adhesive as required. Vehicle tire pressure will provide additional insurance of maximum adhesion. However, for most paving applications the membrane can be pressed with foot traffic, hand rollers or machine rollers.

Application of Tuff-Tape™ Membrane when used as a waterproofing system:

An application of adhesive to all surfaces receiving membrane is required. Adhesive should be stirred prior to use and applied by brush, squeegee or roller, or spray. Avoid excessive build-up of adhesive and allow to dry completely prior to the application of the membrane. Dry times will vary depending on air temperature, airflow and humidity, with the average time being 30-90 minutes.

Tuff-Tape™ Waterproofing Membrane is applied to vertical surfaces by using precut sections of membrane and running the membrane from top to bottom. The release film is removed as membrane is pressed into place. Subsequent membrane sheets are overlapped a minimum 75mm.

Horizontal applications are accomplished using the same method with membrane running from the low point in a shingle effect to the high point of the surface being waterproofed.

TYPICAL PROPERTIES: Construction:

Top fabric:

Close weave, high strength, light weight, chemically resistant polypropylene fabric with low shrinkage characteristics. Fabric will not absorb water.

Base Membrane:

High tack rubber modified asphalt compound, reinforced with non-woven glass fabric by an exclusive hot process designed to give excellent saturation of the reinforcing fabric.

Note: Due to woven fabric and Fiberglas, there is very little elongation of the membrane when compared to other products containing no reinforcing fabric.



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PHYSICAL PROPERTIES:

PROPERTY	TEST METHOD	VALUE
Thickness		70 ± 5 mils
Permeance	ASTM E 96 (B)	.05 US Perms max.
Tensile Strength	ASTM D 1000 Mod** ASTM D 1000 Mod**	1214 psi 85 #/inch width
Elongation Percent	ASTM D 1000 Mod**	25%
Puncture Resistance	ASTM E 154	210 lbs min.
Pliability	ASTM D 146 — I" mandrel @ -25°F ASTM D 146 — "A" mandrel @ -20°F	No cracks/splits @ 180° bend No cracks/splits @ 180° bend
Compound Elongation		1000% min.

** CRE Tester, 10"/min crosshead speed, 4" initial jaw separation, 1" width samples.

TEST DATA: N/A

ORDERING INFORMATION:

Canadian Construction Products Tuff-Tape™ comes standard in 50' rolls at 24 inches wide. Other widths and/or lengths are also available upon request.

If you have any questions, call Canadian Construction Products at 604-888-7171.

The technical data furnished is true and accurate to the best of our knowledge. However, no guarantee of accuracy is given or implied. We guarantee our products to conform to our quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products determined to be defective by our Quality Control standards, exclusive of labour for installation and/or subsequent damage resulting/causing functional damage either directly or indirectly. Prompt reporting (within four (4) working days) of suspected defective product is required. Prices and cost data shown are subject to change without prior notice.

Updated: April 5, 2006