

Protan GT 2,4 mm is a waterproofing membrane primarily intended for use as exposed covering on terraces with pedestrian traffic. The material is made of PVC with a core of glass felt. Plasticizers and UV stabilizers are added to make it suitable for use outdoors. Protan GT is installed on the horizontal surfaces and details and terminations are executed with Protan GT 1,4 mm.

	<i>Protan GT</i>	<i>Protan GT</i>
Thickness	2,4 mm	1,4 mm
Weight	2,5 kg/m ²	≥ 1,6 kg/m ²

Low temperature flexibility – weather conditions

Protan GT is well suitable for the low temperature conditions in Scandinavia during winter months.

	<i>Protan GT</i>
Flexibility at low temperatures EN 495-5	- 30 °C

Solar reflection

A relative light coloured terrace membrane can reduce surface temperatures during warm weather and heat gain within the interior of the building.

Tensile strength and tear strength

Tensile strength is an important property in determining the material's ability to resist wind forces, thermal movements and different movements of the building structure. Tensile and tear strength properties are shown in the table below.

	<i>Protan GT</i>
Tensile strength EN 12311-2	≥ 500 N/50 mm
Elongation at break EN 12311-1	≥ 200 %
Tear resistance EN 12310-2	≥ 130 N

Puncture resistance

Protan GT is resistant to normal foot traffic during roof maintenance and inspections. Details of puncture resistance are shown in the following table.

	<i>Protan GT</i>
Penetration on EPS 20 kg/m ² EN 12730	≥ 300 N
Resistance to puncture by impact + 23 °C EN 12691	≤ 10 mm/diam.
Resistance to puncture by impact + 20 °C EN 12691	≤ 12 mm/diam.

Chemical resistance

The chemical resistance of Protan GT depends upon concentration, duration of contact and temperature. The table below indicates the resistance of Protan GT at normal temperature to various common substances. Please contact Protan TS-Department for particular concentrations and other materials.

Material	Resistance	Material	Resistance
Aluminium	Well suited	Paraffin	Conditional
Asphalt	Not resistant	Petrol	Not resistant
Bitumen	Not resistant	Salt of Aluminium	Not resistant
Caustic potash	Well suited	Salt of Ammonium	Well suited
Carbon Monoxide	Well Suited	Salt of Calcium	Well suited
Carbon tetrachloride	Conditional	Salt of Magnesium	Well suited
Common salt	Well suited	Salt of Potassium	Well suited
Copper & ferrous materials	Well suited	Salt of sodium	Well suited
Detergents	Well suited	Sea water	Well suited
Diesel oil & fuel oil	Conditional	Soaps	Well suited
Ethyl ether	Not resistant	Softeners	Not resistant
Fats (animal & vegetable)	Not resistant	Solvent	Not resistant
Formaldehyde	Conditional	Steam	Not resistant
Iron residues	Conditional	Tar	Not resistant
Motor oils	Conditional	Turpentine oil	Not resistant
Nitric acid	Conditional	Urea	Well suited
Non-aromatic mineral oils	Conditional	Weed killer (aqueous)	Well suited
Oils (animal & vegetable)	Not resistant	Wood preservatives	Conditional

Ageing

Accelerated weathering tests have indicated lifetime expectancy of up to 20 years depending upon level of usage.

Colours

Protan GT material is available in the following three standard colours: Dark grey, light grey and terrace green. The underside of the membrane is dark.

Anti slip surface

Protan GT have an unique anti-slip surface as standard. Compared with non-textured materials it provides a significant safety factor when walked on in wet weather.

