

GREEN ROOF SYSTEM



A green roof system is the roof of a building that is partially or completely covered with vegetation and a growing medium planted over a waterproofing membrane. It may also include additional layers such as a root barrier and drainage and irrigation systems. **PENTENS T-100** is a water based polyurethane membrane which is suitable for green roof system with its high elongation that can improve waterproofing performance.

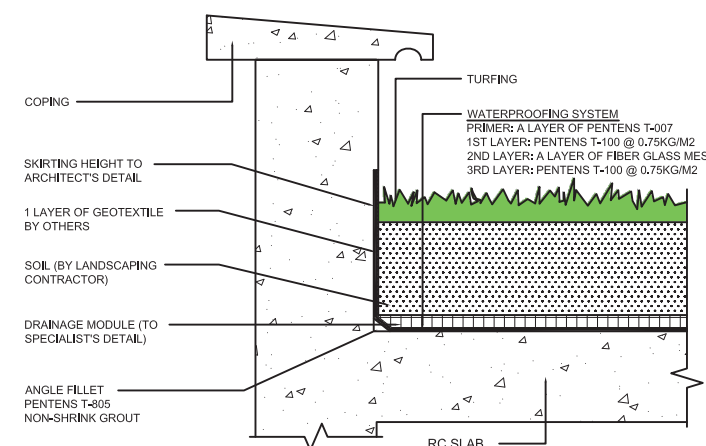


Pentens T-100 Technical Data

Elongation ASTM D412-06ae2 (%)	Tensile Strength (kgf/cm2) ASTM D 412-98	Tear Strength (kgf/cm2) CNS 6986	Puncture (kgf) ASTM E154	Chemical Resistance 10% HCOOH, 600,24hrs
1128.6	20.90	11	1.6	No Changes on the surface of the sample

Pentens T-100 Advantages:

- Low VOC.
- Environmentally friendly.
- Easy application.
- High elasticity.
- Superb adhesive strength.
- Can be applied directly on damp or wet surfaces.
- Suitable in hot and humid tropical climate.
- Resistant to bubbling or side osmosis.
- No phenomenon even submerges in water for a long time.
- Capable of re-application.
- Non-toxic.



Green Waterproofing Application

- Primer : Pentens T-007
 1st Layer : Pentens T-100
 2nd Layer : Fiberglass Mesh
 3rd Layer : Pentens T-100



Pentens T-100 Green Test Data

Heavy Metals: (EPA 3025 / EPA 6010B : ICP)	
A. Cadmium (d)	Not Detected
B. Lead (Pd)	Not Detected
C. Total Chromium (Cr)	Not Detected
D. Mercury (Hg)	Not Detected
Volatile Organic Compounds (ISO 11890-2) (g/L)	0.53
Total Halogenated Organic Solvent (ISO 11890-2) (%)	Not Detected
Total Aromatic Organic Solvent (ISO 11890-2) (%)	Not Detected
Epichlorohydrin (ISO 11890-2) (%)	Not Detected
N-Methyl Pyrrolidinone (ISO 11890-2) (%)	Not Detected
Formaldehyde (High Performance Liquid Chromatography) (%)	Not Detected
Alkyl Phenol Ethoxylate (LCMS-MS) (%)	Not Detected
Flash Point (ASTM D3828-07a) (°C)	>61

