RETAINING WALL SYSTEM



Retaining walls are structures designed to restrain soil to unnatural slopes, so they are often made in concrete to make them more durable or long lasting. These retaining walls can easily get soaked in water during the rainy seasons, causing the formation of mold. Proper waterproofing system must be done to prevent water from seeping into the walls and compromising its structure and finish. The best possible solution to fully waterproofing retaining walls is using **PENTENS T-100** Water-based PU Waterproofing Membrane. **PENTENS T-100** is seamless and will bond to most construction surfaces, it is protected at the time of backfilling with the correct protection boards.

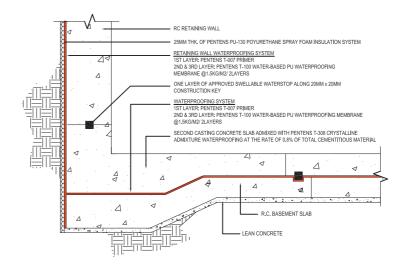
Pentens T-100 Technical Data

Elongation	Tensile Strength	Tear Strength	Puncture	Chemical Resistance
ASTM D412-06ae2 (%)	(kgf/cm2) ASTM D 412-98	(kgf/cm2) CNS 6986	(kgf) ASTM E154	10% HCOOH, 600,24hrs
1128	20.90	11	1.6	No Changes on the surface of the sample

Pencens[®] Green Waterproofing, Leader in Asia

Pentens PU-130 Advantages :

- · Greater structural integrity.
- · Can be applied to damp surface.
- Multi-purpose for a wide range of building applications.
- · Can be trimmed, sanded and sawn.
- · Painted and plastered.
- Good adhesive to most construction surface, such as wood, brick, concrete, metal and many plastics.



Green Waterproofing	& Insulation Application
Primer	: Pentens T-007
1st Coat	: Pentens T-100
2nd Coat	: Pentens T-100
Insulation Layer	: Pentens PU-130

PENTENS PU-130 Insulation Technical Data

Compressive Strength	: 32
Tensile Strength	:1.
Thermal Conductitivity	:0.
Water Absorption (7 days)	:0.

: 32kg/m2 : 1.1kgf/cm2 : 0.028 - 0.038W/(m.k) s) : 0.24kg/m2

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 submerge in water for a long time.
- Capable of re-application.
- Non-toxic.

Pentens T-100 & Pentens PU-130 Green Test Data

Heavy Metals: (EPA 3025 / EPA 6010B : ICP)

Α.	Cadmium	(d)
_		

- B. Lead (Pd)
- C. Total Chromium (Cr)
- D. Mercury (Hg)

Volatile Organic Compounds (ISO 11890-2) (g/L)

Total Halogenated Organic Solvent (ISO 11890-2) (%)

Total Aromatic Organic Solvent (ISO 11890-2) (%)

Epichlorohydrin (ISO 11890-2) (%)

N-Methyl Pyrrolidinone (ISO 11890-2) (%)

Formaldehyde (High Performance Liquid Chromatography) (%)

Alkyl Phenol Ethoxylate (LCMS-MS) (%)

Flash Point (ASTM D3828-07a) (°C) Not Detected Not Detected Not Detected Not Detected

0.53 (T-100) 17.67 (PU-130)

Not Detected

Not Detected

Not Detected

Not Detected

Not Detected

Not Detected

>61



