

PENTENS T-100

Water-Based PU Bituminous waterproofing membrane

Product Data Sheet



Description

PENTENS T-100 is a single component which is newly developed polymer of MMA, natural rubber, and polyurethane combines with the reaction with asphalt and then being modified and further emulsified to form elastic waterproof membrane. PENTENS T-100 is environmentally friendly and low VOC material.

Uses

To provide a better water and vapor proof in complicating application surface compare to membrane-type and ensure better integrity between applied surfaces and waterproofing coating. Areas of application include:

- Floor slabs
- Suspended floors
- Terraces and balconies
- Patios
- Bathrooms
- RC gutters and planter boxes
- Swimming pools
- Water tanks
- Basements and fountains
- Retaining walls

Advantages

- Low VOC
- Environmentally Friendly
- High elasticity.
- Will bond to most surface
- Does not run or creep under heat.
- Resists to wide range of acids and alkalis.
- Can be applied directly on damp or wet surfaces.
- Odourless and produces no fumes
- Non-toxic.

Technical & Physical Data

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| Form | Liquid |
| Colour | Black Coffee |
| Density (CNS 6986, CNS 6988) | 1.08 |
| Hardness (Hs) (CNS 6986, CNS 6988) | 35 |
| Tensile Strength (kgf/cm ²) (ASTM D 412-98) | 20.9 |
| Elongation at break (%) (ASTM D 412-98) | 793 |
| Tensile Strength at 100% Elongation (kg/cm ²) (ASTM D 412-98) | 3.5 |
| Tear Strength (kgf/cm ²) (CNS 6986, CNS 6988) | 11 |
| 100% Modulus of Elasticity (kgf/cm ²) (CNS 6986, CNS 6988) | 5.5 |
| Water Vapour Transmission of Materials (ASTM E96) | 6.165 grains/ft ² x h x in x Hg |
| Puncture (kgf) (ASTM E154) | 1.6 |
| Chemical Resistance (10% HCOOH, 60°C, 24 hrs) | No Changes on the surface of the sample |
| Shelf Life | 1 year when unopened and undamaged |
| Storage Condition | Store in a dry cool place |
| Packaging | 20kg pail 200kg drum |

Important Notes

1. Minimum ambient and substrate temperature is 5°C.
2. Never apply more than 1 kg/m² of PENTENS T-100 in one single layer.
3. Apply only to clean, sound substrates where surfaces should be well dampened but free of surface water and leaks.
4. **Thoroughly agitate contents before use.**