COOL ROOF SYSTEM



Cool roof is a roof that can deliver high solar reflectance as well as high thermal emittance. Cool roof system provides a GREEN alternative energy and efficient solution to your insulation, roofing and waterproofing needs. Spray Polyurethane Foam **Pentens PU-130** uses to reduce thermal conductive heat transfer and its air barrier properties helps reduce convective heat transfer; finished layer **Pentens T-202** Ceramic Coating with solar reflectance Index (SRI) 110.



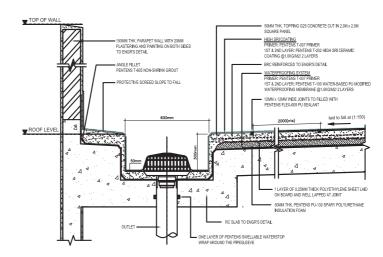
Pentens PU-130 Technical Data

Density ASTM D1622-03	Tensile Strength	Thermal Conductivity ASTM C518-04	Water Absorption
32.20kg/m3	1.10kgf/cm2	0.0272W/(m.k)	0.24kg/m2

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, if necessary painted and plastered.
- Good adhesion to most construction surface, such as wood, brick, concrete, metal and many plastics.



Cool Roof Waterproofing Application

Primer	: Pentens T-007
1st Layer	: Pentens T-100
2nd Layer	: Pentens T-100
3rd Layer	: Pentens PU-130
Finished Coat	: Pentens T-202



Pentens T-202 Advantages :

- Low VOC.
- Environmentally friendly.
- Excellent adhesion and durability.
- Excellent weather resistance.
- Excellent abrasion resistance.
- · Good impact strength.
- Good flexibility.
- Freeze-thaw resistant.

Pentens T-202, Pentens Pentens PU-130 Green	
Heavy Metals: (EPA 3025 / EPA 6010B : ICP)	
A. Cadmium (d)B. Lead (Pd)C. Total Chromium (Cr)D. Mercury (Hg)	Not Detected Not Detected Not Detected Not Detected
Volatile Organic Compounds (ISO 11890-2) (g/L)	3.53 (T-202) 0.53 (T-100) 17.67 (PU-130)
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
Solar Reflectance Index (SRI) -at 12 WM-2/K-1	111

