

CHILLED TANK SYSTEM



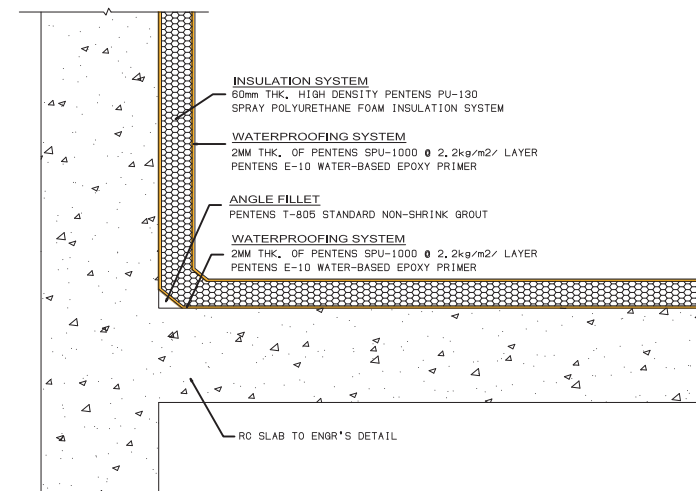
Effective air conditioning is accomplished through the use of chiller tanks. This application enable a building have an efficient air conditioning system to keep indoor temperature at a comfortable level. Water in the tank is cold exceeded freezing level, and the chilled water is pumped through the pipe channels in the building. The PENTENS Polyurethane Foam **PU-130** is specified to insulate as well as to prevent condensation while **PENTENS SPU-1000** Polyurea meant for waterproof purposes.

Pentens SPU-1000 Technical Data

Elongation ASTM D412-06a (%)	Tensile Strength (kgf/cm ²) ASTM D 412-06	Tear Strength (kgf/cm ²) ASTM D-4541	Solid	Pull-off Adhesive Strength (kgf/cm ²) ASTM D4541
>500	>150	>70	100%	>20

Pentens SPU-1000 Advantages:

- Low VOC.
- Environmentally friendly.
- High elasticity.
- Strong and tough, extremely high mechanical properties.
- Chemical resistance - very good resistance for wide range of industrial chemical.
- Hard wearing.
- Outstanding impact resistance.
- Non-skidded.
- Excellent bond strength to properly prepared substrates.
- No abnormality even submerges in water for a long time.
- Fast set return to service in minutes (Often second)
- Non-toxic.



Green Waterproofing Application

Primer	: Pentens T-007
1st Layer	: Pentens SPU-1000
2nd Layer	: Pentens PU-130
3rd Layer	: Pentens SPU-1000

PENTENS PU-130 Insulation Technical Data

Density	: 32kg/m ³
Tensile Strength	: 1.1kgf/cm ²
Thermal Conductivity	: 0.028 - 0.038W/(m.k)
Water Absorption (7 days)	: 0.24kg/m ²



Pentens PU-130 & Pentens SPU-1000 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)	1.0 (SPU-1000) 17.67 (PU-130)
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Total Halogenated Organic Solvent (ISO 11890-2) (%)	Not Detected
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Total Aromatic Organic Solvent (ISO 11890-2) (%)	Not Detected
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Epichlorohydrin (ISO 11890-2) (%)	Not Detected
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N-Methyl Pyrrolidinone (ISO 11890-2) (%)	Not Detected
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Formaldehyde (High Performance Liquid Chromatography) (%)	Not Detected
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Alkyl Phenol Ethoxylate (LCMS-MS) (%)	Not Detected
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Flash Point (ASTM D3828-07a) (°C)	>61
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