

PENTENS PU-260

Hybrid Exposed Decorative PU Waterproofing Coating

Product Data Sheet

Description

PENTENS PU-260 is a high quality one component elastomeric waterproofing coating and modified polyurethane-acrylic copolymer membrane. It cures to form a durable, seamless, UV-stable and weather-resistant waterproofing coating for exposed areas.

Uses

PENTENS PU-260 which is one-part elastomeric self-crosslinking PU copolymer emulsion designed as exposed waterproof coating on:

- RC gutters
- Floor slabs
- Decks
- External walls
- Flat roofs
- Concrete structures

Advantages

- High elasticity.
- High solar reflectance.
- Environmental friendly.
- Easy application.
- Seamless.
- Adheres well on aged, galvanized and metal roofs, wood, asphalt or aluminum coatings, polystyrene foam insulation, polyester plastic panels, precast flat concrete, barrel cement tiles and many roofing materials.
- Weather resistance.
- Non-toxic.

Technical & Physical Data

Form	Liquid
Color	White, Grey, Green, Red, Yellow
Resin	Modified PU
Density(ASTM D792-13)	1.30g/cm ³
Solid Content (CNS 10880-1:1994)	>53%
Elongation (ASTM D412: 06)	>389%
Tensile Strength (ASTM D412: 06)	3.0N/mm ²
Tear Strength ASTM D624: 00)	24.0N
Crack Bridging (ASTM C836/C836M-12)	>2mm
Solar Reflectance (ASTM C1549-09)	86.1%
Thermal Emittance (ASTM C1371-04(2010)e1)	0.80
Weather Resistance (ASTM G155-13)	No cracking
Chemical Resistance (ASTM D1308-02)	All samples-no visible damage
10% Sulfuric Acid	
10% Hydrochloric Acid	
20% Nitric Acid	
30% Phosphoric Acid	
30% Sodium Hydroxide	
10% Acetic Acid	
20% Aluminum Hydroxide	
Engine Oil	
Lubricating Oil	
Brake Oil	
Lemon Oil	
Orange Oil	
Apple Juice	
Curing Time	12 hours
Application Temperature	10°C to 40°C
Service Temperature	-10°C to 100°C
Shelf Life	At least 1 year when unopened and damaged
Storage Condition	Store in a dry cool place
Packaging	20kg /pail

Important Notes

1. Minimum ambient and substrate temperature is 5°C.
2. Never apply more than 1 kg/m² of PENTENS PU-260 in a single layer.

Instruction for Use

Surface Preparation

Surface must be sound, dry and clean (free from dirt, gravels, pollution, mildew and all foreign materials). Do not apply if rain is imminent. Repair flashings and damaged areas. Cracks and old bitumen joints should be repaired first. Existing surfaces must be thoroughly cleaned before applying PENTENS PU-260.

Remove all gravels as it will greatly reduce the weight load and provide a firm surface for the new coating. Sweep and vacuum or power wash surface to remove dirt and dust. Cut out roof blisters and repair with acrylic embedded in polyester fabric or polymer concrete. Remove mildew with sodium hypochlorite or other algaecide and rinse with clean water. Fill any other gaps with silicon impregnated latex caulk. Any loose shingles should be gently lifted and glued down with roofing cement.

Consumption

Coating and roof coating system:

Primer: PENTENS T-007 (0.2kg/m²)

Total thickness: 0.5mm-0.80mm

Total consumption: 1.00kg-1.60kg/m² (2 coats)

Waterproofing reinforced system:

(Reinforce with Pentens fiber glass and seal with PENTENS PU-260 system)

Primer: Pentens T-007 (0.2kg/m²)

Total thickness: 1.00mm-1.20mm

Total consumption: 1.90kg-2.30kg/m² (2-3 coats)

For more details, please refer to PENTENS Technical Department.

Application

Dilute 1 portion of PENTENS T-007 permeable primer with 3 portions of clean water and then plaster directly on the surface to be waterproofed to improve the bonding.

PENTENS PU-260 is best applied in 2 coats. Apply the first coat of PENTENS PU-260 on the application surface. Leave to cure for approximately 8 hours before applying second coat. PENTENS PU-260 can be applied with conventional airless spray, brush or roller.

Over coating

After the primer, PENTENS PU-260 can be applied directly for areas exposed to hot drying winds. For indoor areas, allow approximately 30 minutes after the primer before applying Pentens PU-260.

Curing

Allow the first coat to cure thoroughly for approximately 8 hours depending on temperature, humidity and wind conditions before applying subsequent coat.

Note: The best method to ensure good penetration of the first coat into the surface is to apply with a nap roller. Subsequent coats may be sprayed or roller-applied.

Cleaning

Tools and equipment can be cleaned with water immediately after use. Hardened material can only be mechanically removed.

Safety

PENTENS PU-260 is non-toxic. For personal precautions, wear gloves and goggles when handling PENTENS PU-260. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin cleanser followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.