

### UV Resistant Elastomeric Waterproofing Coating

#### Description

PENTENS T-200 is a newly developed polyurethane acrylic copolymer waterproofing coating offering a hardness and durability. It resists ageing from heat, sunlight and ozone. It has excellent gas impermeability and toughness, and remains flexible at low temperatures. It is a warranted roofing and tanking product.

#### Uses

PENTENS T-200, which is one-part elastomeric cross linking latex copolymer emulsion designed as exposed waterproofing coating on:

- RC gutters and planter boxes
- Floor slabs
- Deck
- Wood siding / Fences
- External wall
- Flat roof
- Metal roof
- Concrete structures

#### Advantages

- Water based, environment friendly
- Gas and oil resistant
- UV Blockers
- No blistering, cracking and peeling
- Chemical resistant and waterproof
- User friendly, suitable use on any surface
- Can withstand foot traffic
- Non-toxic



#### Technical & Physical Data

Form	Liquid
Color	Grey, white, green, yellow, etc.
Resin	Polyurethane acrylic copolymer
Density	1.20 ± 0.1 kg/litre
Solid content	>60% by weight
Elongation (ASTM D412)	>240%
Tensile strength (ASTM D412)	>45 kgf/cm <sup>2</sup>
Tear Strength (ASTM D624)	>35 kgf/cm
Aging test (80 <sup>0</sup> C、 168hrs)	
ASTM D573-04	>50 kgf/cm <sup>2</sup>
a. Tensile Strength	>140 %
b. Elongation	> 45 kgf/cm
c. Tear Strength	> 45 kgf/cm
Water vapor transmission (Perms)	<5
ASTM E96 Method B	
Application temperature	5 <sup>0</sup> C to 40 <sup>0</sup> C
Service temperature	0 <sup>0</sup> C to 80 <sup>0</sup> C
Self life	At least 1 year when unopened and damaged
Storage condition	Store in a dry cool place
Packaging	20kg pail 200kg drum

#### Important Notes

1. Minimum ambient and substrate temperature is 5<sup>0</sup>C.
2. Never apply more than 1 kg/m<sup>2</sup> of PENTENS T-200 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.

## Instruction for Use

### Surface Preparation

Surface must be sound, dry and clean (free of dirt, gravel, pollution, mildew and all foreign material). Do not apply if any rain is imminent. Repair flashings and damaged areas. Cracks and old bitumen joints shall be repaired first. On existing surfaces must be thoroughly cleaned before applying PENTENS T-200.

Remove all gravel. The main reason of applying gravel on the roof was to protect the old surface from the sun's rays. Removing gravel will greatly reduce the weight load on the roof, 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 algacide and rinse with Tack down curled, lifted seams flush with the surface. Fill any other gaps with silicon impregnated latex caulk. Any loose shingles should be gently lifted and glued down with roofing cement.

### Application

Substrate should be primed with a 1:3 mixture of PENTENS T-007 and water. Brush on at the approximate rate of 0.3kg/m<sup>2</sup>.

On areas exposed hot drying winds. 2 to 3 thin coats of paint may be more successful than 1 thick coat.

PENTENS T-200 is suggested to apply at least 2 coats. The first coat should be applied in one direction only. If possible the second coat should be applied at right angles to the first. Leave to cure for approximately 8 hours before applying second coat. PENTENS T-200 can be installed with conventional airless spray equipment, brush or roller.

### Consumption

On concrete roofs: 1kg/m<sup>2</sup>/per coat

On facade/vertical: 0.5~1kg/m<sup>2</sup>/per coat

For more details, please refer to our Technical Department.

### Curing

Allow the coating to cure thoroughly before applying the next coat. 1 – 8 hours of wait period, depending on temperature, humidity and wind conditions.

### Note

The best method to assure good penetration of the first coat into the surface is by application with a nap roller. The succeeding coats may be spray or roller applied.

### Cleaning

Tools and equipment just can be clean with clean water immediately, after use. Hardener material can only be mechanically removed.

### Safety

PENTENS T-200 is non-toxic. For personal precautions, applicators are recommended to wear gloves and goggles when handling PENTENS T-200.