

# PENTENS RA-525

## Product Data Sheet

### Rubberized Asphalt Waterproofing Membrane System

#### Description

PENTENS RA-525 is a superior waterproofing material, made of mainly high quality waterproof asphalt modified with rubber-based high performance polymer. The material provides high elasticity, high tensile strength, high viscosity and excellent resistance against weather and aging.

#### Uses

- Flat roof
- Floor slabs
- RC gutters
- Basement and tunnels
- Bridges and viaducts
- Water tanks

#### Advantages

- Superior elongation above 1000%. Prevent leakages from cracks caused by movements.
- High elasticity, recovery and self-sealing properties prevent leakages even if the waterproofing layer is punctured by foreign matters.
- Non-hazardous in storage or when properly used.
- It can be applied rapidly.
- Superb adhesiveness, no bubbling, tenacious adhesion to substrates, seamless membrane.
- Good resistance against weather, corrosion and aging.

#### Technical & Physical Data

Application Temperature (°C)	120~170
Softening Point (°C) (ASTM D36)	80 (min)
Elongation at Break (%) (ASTM D412), 25°C	1000 (min)
Flash Point (°C) (ASTM D92)	250 (min)
Flowability at 60°C (ASTM D570)	1mm (max)
Flexibility at 0°C (ASTM D146)	No cracking
Shelf Life	12 months

\* The above-shown technical data are typical results obtained, to the best of our knowledge, from our quality control records. Extra details can be provided upon request.

\* In accordance to the standard, a variation of 20% is expected.



## Instruction for Use

### Surface Preparation

All concrete or masonry surfaces should be cured for a minimum of seven days and dry (maximum 4% moisture content). Surfaces must be smooth and clean, free from voids, loose aggregates, sharp protrusions or other contaminants.

### Primer

All concrete surfaces shall be primed with PENTENS RR 01 at the rate of 0.3kg/m<sup>2</sup> by brush, lamb wool roller or spray. Allow primer to dry for half an hour or until tack-free. Prime only the area which will be covered with the membrane. Areas not covered within 24 hours shall be reprimed.

### Application

1. Allow primer to dry 30 minutes or until tack-free before applying membrane.
2. Put small masses of solid-state rubberized asphalt into a melting pot.
3. Heat the melting pot using LPG till 240°C, then pour out into buckets.
4. Pour the melted asphalt out onto the primed substrate, use comb trowel to achieve a uniform thickness.
5. Immediately lay the asphalt felt. Press down uniformly and level so as to prevent voids, bubbles and wrinkles.
6. Each layer should overlap at a minimum of 100mm and rolled down firmly and completely.
7. In accordance with specification, one more layer of rubberised asphalt roofing with asphalt felt is required.

### Packaging

Hot applied rubberised asphalt: 25kg/box.

Sand bed stretch asphalt felt: 1.8mm×1m×15m

## Health & Safety

All safety measures must be observed during application. Fire extinguishers should be available on site. Protective tools, such as gloves and goggles, should be worn by all workers during application.

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