

# SmartBitu SA-500P

## Durable, Self-Adhesive Waterproofing Membrane

**SmartBitu SA-500P** is a durable, self-adhesive waterproofing membrane engineered to accept hot asphaltic overlaps. It is composed of 1.4 mm thick rubberized asphalt a layer of heat-resistant woven polypropylene mesh.

### FIELDS OF APPLICATION

- **SmartBitu SA-500P** is ideal for waterproofing concrete surface on which hot asphaltic concrete overlaps are installed where in-service temperatures will not exceed 55°C.
- It can be applied for parking decks and bridges.

### BENEFITS

- Cold applied – no heating plant or hot bedding adhesive required; self-sealing overlaps provide continuity.
- Flexible – accommodates to changes in profile.
- Robust – withstands paving machinery.
- Controlled thickness – guaranteed thickness; not subject to site variation.
- Cross laminated film – provides dimension stability and resistance to damage.
- Homogenous waterproofing layer – asphaltic concrete flows into mesh when compacted.
- Waterproof – prevents water migration under waterproofing layer.

### TECHNICAL DATA

Property	Typical Results	Test Method
Thickness	1.7mm nominal	ASTM D 3767
Tensile Strength (Average)	20.5N/m	ASTM D 882
Elongation (Min.)	50%	ASTM D 882
Puncture Resistance, Mesh	1299 N	ASTM E 154
Flexible, 180° bend over 6mm	Unaffected	ASTM D 1970
Crack Cycling at -4°C, 100 Cycles	Unaffected	ASTM C 836
Peel Adhesion	886 N/m	ASTM D 903

### APPLICATION PROCEDURE SURFACE PREPARATION

- Surfaces should be structurally sound with a smooth, uniform surface and free of voids, spalled areas, loose aggregated and sharp protrusions with no coarse aggregate visible.
- Remove contaminants such as grease, oil & wax from exposed surface. Remove dust, dirt & loose stones and debris.
- New concrete should be cured and dry for a minimum of 7 days. If time is critical, SmartBitu Coat may be used to allow priming and installation of membrane on damp surfaces or 'green' concrete. Priming may begin in this case as soon as the concrete will maintain structural integrity.
- Dry time of new patching concrete will vary with weather conditions and mix design.
- Forms must be removed to allow proper drying of concrete and concrete surfaces must be clean and dry prior to installation of **SmartBitu SA-500P**.
- New concrete may be cured with a clear, resin-based curing compound. **SmartBitu SA-500P** is not compatible with concrete treatment that contain oil, wax, silicone or pigment.

### SURFACE TREATMENT & PRIMING

- Treat all concrete surfaces to receive **SmartBitu SA-500P** with Smart Bitu Coat.
- DO NOT apply any primer to **SmartBitu SA-500P**.
- Apply Smart Bitu Coat at a rate of 6m<sup>2</sup>/L. Primer can be applied with a lamb wool roller.
- Primer only the area which will be covered with membrane in a working day and primer should dry 1 hour or until tack free.

### PLACING

- Apply **SmartBitu SA-500P** so that side laps are in the direction of paving and shed water. End laps should be staggered.
- Membrane shall be over-lapped a minimum of 50mm along the lateral side and 150mm on end laps.
- Application of the membrane shall begin and end on the horizontal surface.
- Vertical terminations along curb lines, expansion dams or any other protrusion shall receive a trowel of mastic.
- Mastic should cover the edge of the membrane and extend no higher than the planned level of the wearing surface.

### DISCLAIMER

All information was prepared carefully, using current references available to us. Information provided is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/herself as to the suitability and completeness of information provided here for their intended use. We do not accept liability for any loss or damage that may occur from the use of this information.

**PACKAGING**

- **SmartBitu SA-500P** is 1.7 mm thick, 1m wide and 20m long and is supplied in rolls.

**HANDLING SAFETY & STORAGE**

- **SmartBitu SA-500P** must be handled properly. Vapors from solvent-based primers and mastic are harmful and flammable. Please consult S3 representative for the best available information on safe handling, storage, personal protection, health and environmental consideration.
- Store upright in dry condition below 135°C

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