

SpECtite HP600

ONE PART POLYURETHANE ELASTOMERIC MEMBRANE

DESCRIPTION

SpECtite HP600 is a black, liquid applied, pitch modified, high polymer, one part polyurethane, which cures upon exposure to atmospheric moisture to form a tough, flexible and elastomeric membrane with excellent water resistance and low vapour permeability.

TYPICAL USES

To provide a waterproofing membrane to building and civil engineering structures in a variety of situations such as:

- Tiled floors in bathrooms, shower rooms, kitchens and plant rooms
- Foundations and basement structures
- Suspended floors, parking decks and promenades over utilised areas
- Balconies, roof terraces and patios
- Inverted roofs (Consult our Technical Department for additional information)
- Non potable water retaining structures, sewage tanks, inspection pits and tunnels

INTERNATIONAL STANDARDS COMPLIANCE

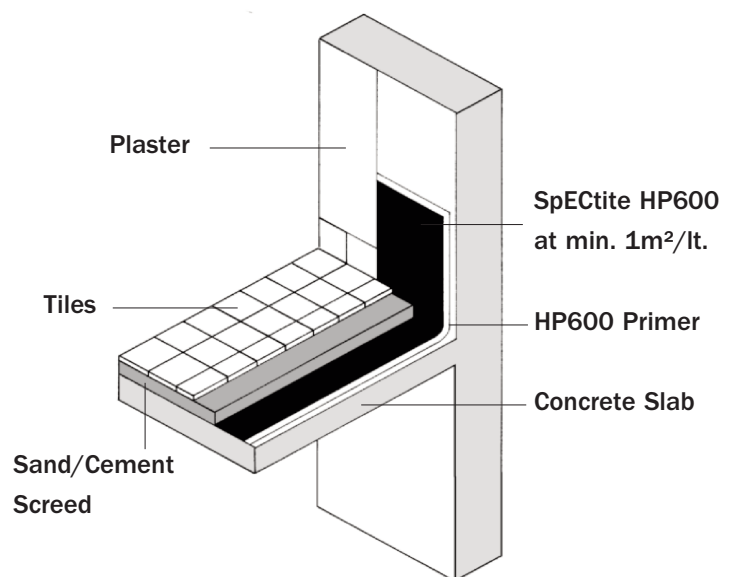
SpECtite HP600 meets the requirements of ASTM C 836-95.

ADVANTAGES

- Single component which requires no mixing or heating
- Excellent adhesion to most common construction substrates
- Highly flexible with excellent crack bridging properties (up to 2mm)
- Good application characteristics by brush or spray
- Excellent water resistance and low vapour permeability
- UV resistant when applied on exposed surfaces
- Moisture tolerant
- Resistant to cracking at low temperatures and does not suffer flow at high temperatures

- Good resistance to industrial environments
- Moisture tolerant capability

TYPICAL DETAIL FOR WET AREA WATERPROOFING



TECHNICAL DATA

Appearance	Black viscous liquid
Solids content	80 ± 5%
Cure time @ 25°C & 50% R.H.	12-24 hours touch dry, 7 days full cure
Application temperature	5°C to 60°C
Shore A (ASTM D 2240)	60
Tensile strength ASTM D 412	1.5 N/mm ²
Ultimate elongation ASTM D 412-98a	Minimum 600%
Accelerated weathering 12000 Hours	No appreciable deterioration
Abel closed cup flashpoint	69°C
Adhesion-in-Peel (mortar)	6.5lb/in

CHEMICAL RESISTANCE

UV Resistance	Excellent
Hydrolysis Resistance	Excellent
Resistance to Industrial environment	Good

APPLICATION INSTRUCTIONS

Surface Preparation

Concrete surfaces must be float or shutter finished. The surfaces must be free of cavities and projections. Blockwork or brickwork must be flush pointed and of a uniform finish.

The surfaces should be made dry, clean, dust and frost free to expose a sound, clean substrate.

Priming Application

Priming is not normally necessary on good quality concrete, however for particularly porous or metal surfaces, **SpECTite HP600 Primer** must be used.

SpECTite HP600 should be applied after the primer has become touch dry, usually 2-4 hours following application, but before it has fully reacted.

If the **SpECTite HP600** is not applied within 48 hours after priming, the surfaces should be re-primed.

Application

SpECTite HP600 should be applied by brush, roller or airless spray equipment at a thickness of 1mm in two coats.

On vertical surfaces, it may be necessary to achieve the correct film thickness by applying two coats with lighter loading to avoid slump especially when working at a high ambient temperature. Apply 2 coat systems at right angles to each other to ensure an even coating application. If a flood test is to be done, allow a minimum curing period of 10 days. The first coat should be touch dry prior to the application of the second coat. The second coat should in any event be applied within 12 hours of the first coat becoming touch dry.

When continuing membrane application from day joints, an overlap of 250mm should be made.

SpECTite HP600 can be coated over or granules can be broadcast as desired. (Consult our Technical Department for additional information).

Protection

In certain conditions, particularly where back filling against **SpECTite HP600** is anticipated, protection board should be used.

ANCILLARY MATERIALS

SpECTite HP600 Primer

Flashpoint	- 69°C
Specific Gravity	- 1.05 ± 0.1
Application temperature	- 0°C - 70°C
Pack size	- 5 and 25 litre

PACKAGING & YIELD

SpECTite HP600 is supplied in 20 litre drums. **SpECTite HP600 Primer** is supplied in 5 litre and 25 litre drums.

Coverage rates may vary depending on the substrate. As an average on a smooth surface, the coverage rate for **SpECTite HP600** is 1m²/litre at 1mm thickness and 6-10m²/litre for **SpECTite HP600 Primer**.

REPAIRS

Minor damage to **SpECTite HP600** can be repaired by:

- Removing loose membrane
- Cleaning the surrounding area, overlapping by 150mm
- Priming the cleaned area with **SpECTite HP600 Primer** and applying 2 coats of **SpECTite HP600**

SPRAY APPLICATION

- Only airless spray should be used
- Graco King 60 to 1 ratio or similar
- Compressor:- 100 psi, 60 cfm min
- Tip Size:- 28/30 thous. 50° angle

STORAGE & SHELF LIFE

SpECTite HP600 has a shelf life of 12 months when stored in original containers in cool, dry conditions. Protect the material against moisture and direct sunlight. Storage temperature: 5°- 30°C. Products

should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

SpECTite HP600 Primer has a shelf life of 12 months when stored in original containers. The primer should be stored as a highly flammable liquid.

HEALTH & SAFETY

SpECTite HP600 and **SpECTite HP600 Primer**.

Avoid contact with skin and eyes, wear gloves and eye protection.

Refer to relevant MSDS for additional information.

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If it is proven that the product does not perform as described in our TDS, SpEC's liability extends solely to the free replacement of product, once the claim has been accepted after due investigation by SpEC. SpEC will not entertain any claims involving any form of consequential costs or damages such as shipping costs, custom duties, damages to third parties, damages to structures, penalties from delay of a project or any other form of consequential damage.

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