

## SpECTite HP600

(FORMERLY FLEXOROOF PU)

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, patios and planter boxes
- Inverted roofs (Consult our Technical Department for additional information)
- Non potable water retaining structures, sewage tanks, inspection pits and tunnels

### INTERNATIONAL STANDARDS COMPLIANCE

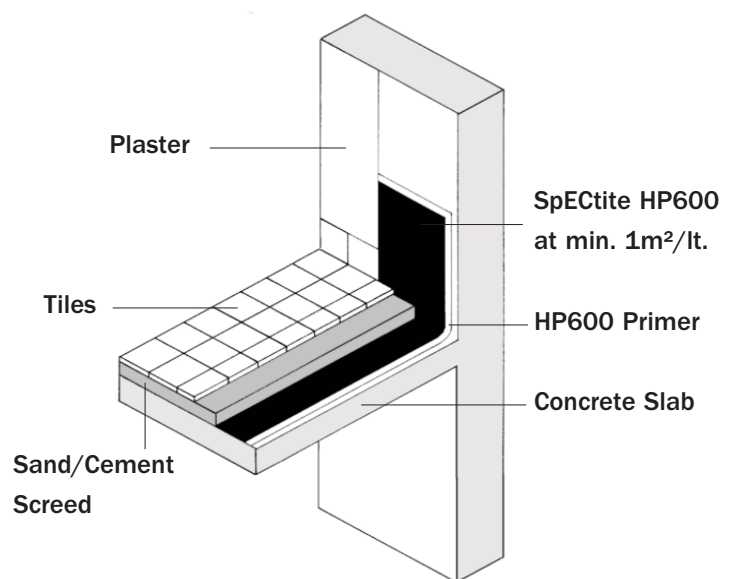
**SpECTite HP600** meets the requirements of ASTM C 836-95.

### 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
- Does not readily embrittle with age when exposed to UV radiation or weathering - U.V. resistant grade available

- Resistant to cracking at low temperatures and does not suffer flow at high temperatures
- Good resistance to industrial environments

### TYPICAL DETAIL FOR WET AREA WATERPROOFING



### TECHNICAL DATA

<b>Appearance</b>	Black viscous liquid
<b>Solids content</b>	Minimum 90%
<b>Cure time</b> @ 25°C & 50% R.H.	12-24 hours touch dry, 7 days full cure
<b>Application temperature</b>	5°C to 60°C
<b>Shore 00/A @ 25°C</b> (ASTM C836/05)	90/30
<b>Tensile strength</b> ASTM D 412-98a	1.7 N/mm <sup>2</sup>
<b>Ultimate elongation</b> ASTM D 412-98a	500%
<b>Accelerated weathering</b> 12000 Hours	No appreciable deterioration
<b>Abel closed cup flashpoint</b>	69°C
<b>Adhesion-in-Peel (mortar)</b>	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 tacky, 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 dry film thickness (dft) not less than 0.5mm or more than 1mm per coat.

The membrane can be applied in one 1mm or two 0.5mm 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 such as **SpECTite PBP** or **PBF** should be used. (See separate Data Sheets).

## ANCILLARY MATERIALS

### SpECTite HP600 Primer

Flashpoint	- 69°C
Specific Gravity	- 1.2
Application temperature	- 0°C - 70°C
Pack size	- 5 and 25 litre

### SpECTite Fibre Protection Board - PBF

### SpECTite Polypropylene Protection Board -PBP

## 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 1m<sup>2</sup>/litre at 1mm dry film thickness and 6-10m<sup>2</sup>/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**

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### **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 9 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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