

HYCHEM

3000



Hychem 3000 Fluid Applied Waterproofing Membrane

FEATURE

Hychem 3000 is a modified polyurethane coating compound suitable for concrete slab construction in plaza decks, roof terraces, pedestrian concourses, podium parking garages, reflecting pads, horizontal and vertical applications.

PROPERTIES

Appearance	: viscous liquid
Viscosity at 25°C cps	: 15,000
Cure time at 25°C	: 24 hours
Solid contents	: 100%
Flash point	: 43°C
Mixing ratio	: 100 : 13
Specific gravity	: 1.20
Color	: green, black, grey

CURED FILM

Tensile strength ASTM D412-80 kg/cm ²	: 350
Adhesion strength ASTM C836-81 kg/cm	: 300 (Concrete – concrete after 7 days)
Tear resistance ASTM D 624-78	: 14.5/M/KN/M
Service temperature	: -40°C to 150°C
Elongation at 20°C %	: 850%
Hardness shore A	: 38
Water permeability	: 0.18 mg/pasm

CHEMICAL RESISTANCE

NaOH 20%	: good
HCL 15%	: good
H2SO4 15%	: excellent
Seawater	: excellent
H2NO3	: good

USE

Hychem 3000 waterproofing membrane system are designed to provide waterproofing for:-

- Reinforced concrete flat roofs, decks and balconies.
- Basement tanking to wall and floor.
- Swimming pools, planter box, toilet / shower floors.
- Carparks decks, ramps.
- Play decks and certain sport surfaces.

Hychem 3000 can be applied as an exposed or concealed membrane and over PU foam insulation.

CHARACTERISTICS AND ADVANTAGES

- Good resistance to UV light.
- High flexible, tensile and bonding strength elongation and recovery from stress.
- Excellent resistance to a wide range of chemicals.
- Lightweight, self finished seamless membrane that can work into all types of surfaces. corners and turnips.
- Fire retardant modified membrane is also available.
- Can be exposed to moderate traffic.

SUBSTRATE PREPARATION

New Surfaces

Concrete surfaces to receive Hychem 3000 shall be relatively smooth, leveled and free from protrusion, totally cured and dry. Free from oil/grease stain. No broadcasting or sprinkling of cement shall be allowed while trowelling concrete surface to a smooth finish. Surfaces of concrete can be mechanical grind and vacuum to remove laitence.

Existing Surfaces

Existing surfaces to receive 3000 shall be relatively smooth, sound and stable. Mechanical grind and vacuum to remove laitence, loose materials, coating, etc.

STORAGE

The original container shall store in a cool and dry place at room temperature in between of 10°C to 25°C. The shelf life of the product is 12 months.

APPLICATION

- For porous and dusty surfaces of concrete, apply one coat of Hychem E-200 at approximately 0.5mm.
- Allow 60 mins drying time depending on temperature.
- Apply Hychem 3000 membrane coating to the required thickness at approximately 1.25 kg/m² to achieve 1.0mm dry film thickness.
- Application can be done by notched scraper, trowel, roller, brush or airless spray.
- Allow 4 hours drying time in between coats depending on temperature.

Note: The above information is for general information only. The stated properties and performance characteristics are approximate values. Actual field results may vary, due to temperature fluctuations etc.