



TYL® - HydroStop 1020

Hydroswellable Waterstops

202402

DESCRIPTION

TYL®-Hydrostop 1020 is a high performance elastomeric modified polymer type hydrophilic strip. It expands itself when it absorbs water. By this swelling function it fills up the concrete joint and thus prevents water leakage. These hydrophilic groups are not subject to extraction and loss of swelling performance by prolonged or repeated wetting. Slow release coating on TYL®-HydroStop 1020 expand not immediately after immerse in water.

It has the same function of delay coating to prevent premature expansion due to rain exposure.

USES

- Integral sealing for concrete joints cast in-situ.
- Typical uses like secant piled and diaphragm walled basements, pile caps and casting against old concrete.
- Around pipes penetrations or
- I-beam and precast concrete



ADVANTAGES

- Tolerant of salts present in concrete and groundwater.
- Sustains effective seal in wet conditions.
- Good recovery from deformation caused by pressure.
- Free from rubber, bentonite or other inclusions
- Made from a preformed elastomeric strip.
- Not deteriorate under prolonged wet/dry cycling

SPECIFICATION COMPLIANCE

- CEDD G.S. Clause 21.2.20.

PHYSICAL & MECHANICAL PROPERTIES

Property	Typical Result
Density	1200 kg/m ³
Color	Black
Volume Change	Over 300%
Specific Gravity	1.6
Hydrostatic Head Resistance	60m
Application Temp Range	-5°C to 50°C
Service Temp Range	-30°C to 70°C

PHYSICAL & MECHANICAL PROPERTIES

<u>Property</u>	<u>Typical Result</u>
Hydrocarbon Content (ASTM D4)	49%
Volatile Matter (ASTM D6)	0.9%
Penetration, cone at 77°F, 150gm 5 ,sec (ASTM D217)	40

APPLICATION INSTRUCTIONS

The substrate should be dry or mat moist, free of loose particles, dust, mud, laitance, honeycombs, water drop and protruding coarse aggregate.

Apply 'Dunlop LP' contact adhesive or 'TufBond MP' epoxy adhesive onto the cleaned surface where the TYL®-Hydrostop 1020 is to be stuck.

Stick it on the surface immediately then and cut to attain desired length if required.

Softly hit all over the surface with wooden hammer to make sure firm bonding.

PACKAGING

Size 10mm x 20mm x 10m roll

*Special dimension is an available upon request



LIMITATIONS

TYL®-Hydrostop 1020 should not be used in locations which allow free unrestrained swelling. It should not be installed with less than 50mm of concrete cover to ensure that the pressure arising from the swelling action is accommodated

STORAGE

Store in original unopened cartons or bags in cool, dry conditions, away from sunlight.

SHELF LIFE

12 months

HEALTH AND SAFETY

There are no health hazards in normal use.

