

TECHNICAL DATA SHEET : SWELLSEAL

Issue 1 2019 03 WPTDS25

PRODUCT DESCRIPTION

SwellSeal is an extruded rubber compound made from butyl rubber, hydrophilic resin, polyethylene, silicone and special admixtures and used to seal joints on many poured-in-place and below ground precast concrete applications. SwellSeal produces a water-tight seal when under conditions of confinement as it moulds itself to the surrounding surfaces. On contact with water it is capable of swelling up to 4 times its own volume, even filling gaps which are uneven in size. This means SwellSeal can be used without the need for any high-compression force. Please note: This product is often referred to as a waterbar within the market place.

TYPICAL USES

- Suitable for use in both vertical and horizontal joints in precast concrete wall panel systems
- Shield-driven tunnels such as subways, water supply and sewage systems, tunnels, cable lying etc.
- Within concrete rafts or slabs
- Basements
- Around pipes

ADVANTAGES

- **CAPABLE OF SWELLING UP TO FOUR TIMES IN VOLUME**
- **CAN WITHSTAND UP TO 5 BAR OF HYDROSTATIC PRESSURE**
- **CAN BE USED IN CONJUNCTION WITH NON-EXPANDING RUBBER**
- **REVERSIBLE EXPANSION PROCESS**
- **EASY TO INSTALL**
- **SUITABLE FOR VERTICAL AND HORIZONTAL OVERHEAD APPLICATIONS**
- **RESISTANT TO ANIMAL MANURE AND SALT WATER**



PROPERTIES

| Technical Data | |
|---------------------|------------------------------|
| Colour | Grey |
| Shore A | 38 |
| Elongation at Break | 490/770% |
| Tensile Strength | 1.1 / 2.1 MPa |
| Specific Weight | 1.25g/cm ³ = 1.25 |
| Volume of Swelling | Approximately 400% |
| Service Temperature | - 30°C to + 70°C |
| Resistance | Up to 5 bar water pressure |

SUBSTRATE PREPARATION

Joint surfaces must be clean, dry and free from all unsound materials.

APPLICATION

SwellSeal can either be installed with a either a building adhesive*, fitting rails or fitting bars.

Note: Only operatives that are fully trained and familiar with this product should complete it's installation. For help and advice please contact the Wykamol Technical Department.

**Please discuss product selection of building adhesive with the Wykamol Technical Department.*



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PACK SIZE AND COVERAGE

| Pack Size | Product Code | Coverage |
|--------------|--------------|-----------|
| 18 mm x 7 mm | SWELLSEAL18 | 72 metres |

SwellSeal with fitting bar application



STORAGE

Store in dry conditions, protected from direct sunlight, frost and water, in temperatures > 5°C and < 70°C.

SHELF LIFE

3 years when stored correctly.

HEALTH AND SAFETY

Dispose of waste in accordance with local authority regulations. For further information and advice, please contact the Wykamol Technical Department.

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