

# AIMSWELL

## Hydrophilic thermoplastic Swellable Bar

### DESCRIPTION

AIMSWELL swellable bar is a versatile material with a thermoplastic polymer matrix that exhibits exceptional strength and durability. Upon exposure to water, its hydrophilic components trigger controlled swelling, making it ideal for applications requiring expansion or sealing, such as construction joints. The material's thermal stability, and ability to prevent water ingress make it a valuable choice for diverse engineering and construction projects focused on effective water sealing and mitigation.

### APPLICATION AREAS

- ▶ Construction Joints
- ▶ Precast concrete segments
- ▶ Pipe and Steel Work Penetrations
- ▶ Foundations
- ▶ Pools
- ▶ Manholes

### ADVANTAGES

- ▶ Permanent Water Resistance
- ▶ Customizability
- ▶ Durability
- ▶ Controlled swelling
- ▶ Versatility
- ▶ Thermal stability
- ▶ Enhanced longevity

### APPLICATION

In construction and engineering projects requiring effective water sealing and dynamic adaptability, ADVAMASTIC PU SEALANT emerges as a reliable adhesive choice. Its exceptional bonding properties and durability make it an ideal substrate for anchoring specialized materials like the AIMSWELL swellable bar. As the AIMSWELL bar, renowned for its hydrophilic swellable characteristics, comes into contact with water, it expands strategically to form a secure and watertight seal. By combining ADVAMASTIC PU SEALANT's robust adhesion with AIMSWELL's controlled swelling capabilities, this application ensures a comprehensive solution for waterproofing, construction joints, and other critical areas where moisture intrusion must be prevented.

### TECHNICAL SPECIFICATIONS

Property	Test Method	Value
Color	-	Blue
Dimensions	-	20X10 mm
Service Temperature Range	-	-50°C to 75°C
Water Swell Demineralized Water	-	7 Days at 23°C, Min 2000%
8% Saline Solution	-	21 Days at 23°C, Min 300%
Hardness	ISO 868	Shore A - 25
Density	ISO 2781	1.23 g/cm <sup>3</sup>
Tensile Strength	ISO 37	1.2 MPa
Elongation at Break	ISO 37	550%
Tear Strength	ISO 34-1 Method C	9 N/mm