

Product Data Sheet

CasTech Seal PU 40

Nov-2025, Ver. 01.01



One-Component Moisture-Curing Polyurethane Joint Sealant

DESCRIPTION

CasTech Seal PU 40 is a one-component, moisture-curing polyurethane sealant with good sealing and flexible performance. It causes no corrosion or pollution to base materials, is environmentally friendly, puncture resistant and easy to repair, and bonds well with cement and stone.

TYPICAL USES

Suitable where low movement and high resistance to penetration and pressure are required:

- Waterproof sealing of the back-water face of bridges and tunnels
- Drainage pipes and other waterproof structures
- Precast panels, internal concrete walls, and stone bonding and sealing

ADVANTAGES

Key advantages:

- One-component
- Excellent extrusion
- Non-sag
- Easy construction
- High modulus

INSTRUCTIONS FOR USE

- Remove dust, oil and water from the substrate surfaces
- To confirm bonding and compatibility, carry out trials in advance on the actual substrate and environment
- Tack-free time and curing speed are influenced by ambient temperature and humidity
- Application conditions: temperature 5 – 35°C, humidity 50 – 70% RH

PACKAGING

- Cartridge: 310 ml
- Sausage: 400 ml / 600 ml
- Drum: 240 kg

TYPICAL PROPERTIES

Appearance	Black, grey, white homogeneous paste
Density	1.45 g/ml (req. 1.45 ± 0.1)
Extrudability	440 ml/min (req. ≥ 80)
Sagging	0 mm (req. ≤ 3)
Tack-Free Time	1 h (req. ≤ 24)
Curing Speed	2.6 mm/d (req. ≥ 2.0)
Volatile Content	2% (req. ≤ 7)
Shore A Hardness	46 (req. 40 – 50)
Tensile Strength	2.5 MPa (req. ≥ 1.5)
Elongation at Break	550% (req. ≥ 400)
Tensile Modulus (23°C)	0.45 MPa (req. > 0.4)
Tensile Properties at Maintained Extension	Pass
Adhesion/Cohesion at Maintained Extension after Water Immersion	Pass
Adhesion/Cohesion at Variable Temperature	Pass
Elastic Recovery	80% (req. ≥ 70)
Service Temperature	40 – 90°C
Fire	Non-flammable

STORAGE

Keep sealed in a cool, dry place at 5 – 25°C and humidity ≤ 50% RH.

HEALTH AND SAFETY

Precautions: Keep away from children. Avoid contact with skin and eyes. For skin contact, remove the sealant with a cloth and wash thoroughly with soap and water. For eye contact, hold eyelids apart, flush thoroughly with water and contact a physician.

Additional information: Refer to MSDS (available on request).

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TECHNICAL SUPPORT

CasTech provides on-site assistance and consulting services on

projects when requested. Technical data sheets on other CasTech products and guidance on their use are available on request.

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