

Product Data Sheet

CasTech PU Foam

Nov-2025, Ver. 01.01



Two-Component Polyurethane Spray Insulation Foam System

DESCRIPTION

CasTech PU Foam is a high-performance polyurethane spray insulation polyol designed to react with isocyanate, producing rigid foam with excellent thermal insulation properties. The resulting foam features:

- Fine, uniform cell structure
- Low thermal conductivity
- Superior fire resistance
- Excellent dimensional stability at low temperatures

TYPICAL USES

- Cold storage rooms
- Large tanks and pipelines
- Building insulation (exterior and interior walls)
- Industrial and commercial thermal insulation projects

ADVANTAGES

Key advantages:

- Fast reaction time (quick curing)
- High compressive strength
- Low thermal conductivity (energy efficient)
- Excellent adhesion to various substrates
- Spray-applied for seamless insulation

PHYSICAL PROPERTIES

Viscosity @ 25°C - Component A	350 - 450 mPa·s
Viscosity @ 25°C - Component B	150 - 300 mPa·s
Specific Gravity - Component A	1.17 - 1.19
Specific Gravity - Component B	1.22 - 1.24

REACTIVITY CHARACTERISTICS

Mixing Ratio (A : B)	1 : 1.05
Cream Time	4 - 6 sec
Gel Time	9 - 12 sec

Values may vary based on processing conditions and equipment.

FOAM PERFORMANCE

Overall Density	40 - 42 kg/m ³
Compressive Strength	> 250 kPa
Initial Thermal Conductivity	0.022 - 0.023 W/m·K
Dimensional Stability (-20°C, 24 h)	≤ 1%
Dimensional Stability (70°C, 24 h)	≤ 1%

All values are typical laboratory results; field performance may vary.

PACKAGING AND STORAGE

- Component A: 200 kg drum
- Component B: 200 kg drum
- Store in a cool, dry place (5 - 30°C)

HEALTH AND SAFETY

PPE: Wear gloves, goggles and a respirator during handling.

Precautions: Avoid skin and eye contact; rinse immediately with water if exposed. Ensure proper ventilation during application.

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.

CasTech MIDDLE EAST FZE

T6-04, Sharjah Airport Free Zone, Sharjah, UAE

P.O. Box: 121661 Tel.: +971-6-5489207

Fax: +971-6-5579879 Email: info@castechchem.com