# FS32

## Polyurethane Closed Cell Foam — 32 kg/m$^3$

## PRODUCT DESCRIPTION

**FS32** is a fully formulated polyol blend designed to react with FS Part A to produce a general-purpose, water and hydrocarbon blown, rigid polyurethane insulating foam.

This medium-density foam system is engineered for controlled reactivity, making it well-suited for spray applications with the use of plural component dispensing equipment. The system is optimized for pour-in-place or injection applications, with a free rise density of 30–35 kg/m$^3$.

## INTENDED USES

- Spray-applied thermal insulation for walls, ceilings, and roofs using plural component dispensing equipment
- Void filling and structural reinforcement in building assemblies
- Insulation of cavities in concrete panels, prefabricated walls, and flooring systems
- On-site casting of rigid foam for energy-efficient and fire-rated building envelopes
- Seamless application of closed-cell foam with excellent adhesion, fast curing, and enhanced fire performance for construction environments

## FEATURES

- 1:1 mix ratio (A:B) by volume — compatible with standard plural component spray equipment
- HFO-free formulation — environmentally friendly with low global warming potential
- Snap cure and fast rise time — ideal for high-productivity applications
- Excellent anti-sagging properties — adheres well to vertical and overhead surfaces
- Closed-cell structure — superior thermal insulation and moisture resistance
- Fire-rated — designed to meet building code requirements for flame and smoke spread
- Low odour — suitable for on-site use with minimal disruption

## PRODUCT DATA

| Property | FS Part A | FS32 Part B |
|---|---|---|
| **Appearance** | Amber | Brown |
| **Specific Gravity** | 1.23 g/mL (20 °C) | 1.06 g/mL (25 °C) |
| **Viscosity Cps** | 210 mPa.s (20 °C) | 1000–1500 mPa.s (25 °C) |

## MIXED PRODUCT DATA

| Parameter | Specification |
|---|---|
| **Mix Ratio** | 1:1 |
| **Cream Time** | 5–7 Seconds |
| **Rise Time** | 10–15 Seconds |
| **Free Rise Density** | 30–35 kg/m$^3$ |

## TYPICAL CURED PROPERTIES

| Test | Method | Result |
|---|---|---|
| **Core Density** | ASTM D1622 | 32 kg/m$^3$ |
| **Ignitability Index** | AS/NZS 1530.3-1999 | 16 |
| **Spread of Flame Index** | AS/NZS 1530.3-1999 | 0 |
| **Heat Evolved Index** | AS/NZS 1530.3-1999 | 2 |
| **Smoke Developed Index** | AS/NZS 1530.3-1999 | 5 |

## APPLICATION & EQUIPMENT SETTINGS

| Setting | Recommended Value |
|---|---|
| **Graco Equipment** | Graco E-30 and AP Fusion Gun or GX7a |
| **Dynamic Spray Pressure** | > 1500 psi |
| **Operating Temperature** | 45 °C |

## LIMITATIONS

- If used externally, it must be protected from direct weather exposure with a spray-applied membrane.

## STORAGE & HANDLING

Store in dry, shaded conditions away from sources of heat and ignition and in properly sealed containers. Protect from heat and frost. Protect contents from moisture. A shelf life of 12 months minimum is typical with unopened containers if stored at ambient conditions at 25 °C. If either component is opened and partially used, it should be purged with nitrogen or desiccated air and resealed.

## DISPOSAL

**Liquid Systems:** Liquid Polyol or isocyanate should be disposed of with an EPA approved industrial waste company which meet all applicable federal, state and local laws and regulations.

**Cure Urethanes:** Fully reacted polyurethanes are inert and can be disposed of as regular landfill.

**Container:** Dispose of contaminated drums in accordance with federal, state and local laws and regulations. Do not reuse empty containers.

## HEALTH & SAFETY

**Safety Notice:** Water contamination can cause dangerous pressure build up in isocyanate drums. Caution must be taken when opening containers to slowly release the pressure. Please download the most recent SDS from **foamstudio.com.au** and read prior to using FOAM.STUDIO products.

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