FS20

Polyurethane, Closed Cell Foam — 20 kg/m^3

PRODUCT DESCRIPTION

FS20 is a fully formulated polyol blend designed to react with FS Part A to produce a general-purpose, hydrocarbon/water blown rigid polyurethane foam.

This medium-density foam system is engineered for controlled reactivity, making it well-suited for hand-mixed applications or use with plural component dispensing equipment. The system is optimized for pour-in-place or injection applications, with a free rise density of 20–25 kg/m^3.

INTENDED USES

- Hand-poured or equipment-applied general void filling
- Buoyancy and flotation systems
- Pour-in-place foam insulation
- Pipe-in-pipe insulation and filling
- On-site casting of rigid foam components with minimal processing

FEATURES

- Versatile application → suitable for both hand-mixing and plural-component spray/pour equipment
- Controlled reaction profile → allows time for placement before full expansion
- High mechanical strength → delivers strong compressive and flexural performance
- Excellent flow characteristics → ensures uniform filling in complex or enclosed spaces
- Closed-cell structure → long-lasting thermal insulation and moisture resistance
- CFC-free and hydrocarbon/water blown → supports sustainable, low-impact manufacturing

PRODUCT DATA

Property	FS Part A	FS20 Part B
Appearance	Brown	Amber
Specific Gravity	1.23 g/mL (25 °C)	1.04 g/mL (20 °C)
Viscosity Cps	210 mPa.s (20 °C)	350 mPa.s (25 °C)

MIXED PRODUCT DATA

Parameter	Specification
Mix Ratio	1:1
Cream Time	20–25 Seconds
Rise Time	300–320 Seconds
Free Rise Density	20–25 kg/m^3
Expansion Ratio	45:1

TYPICAL CURED PROPERTIES

Test	Method	Result
Core Density	ASTM D1622	23 kg/m^3

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.

DISCLAIMER

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