

PRODUCT DESCRIPTION

SprayFlex 2.0 is a rapid set, two-component, fire retarded, flexible polyurethane spray foam, exhibiting excellent re-bound properties.

PHYSICAL PROPERTIES

Components

Component A (isocyanate)	
Viscosity (20°C)	350-450cps
Specific Gravity	1.2
Component B (polyol)	
Viscosity (20°C)	1200-1500cps
Specific Gravity	1.03

Mix Ratio

100A : 100B parts by volume

Typical Properties:	
Cream Time (20°C)	7-14 secs
Rise Time	25-40 secs
Tack Free Time	60-120 secs
Free Rice Density	200-250 Kg/m ³

Note: Cream Time is dependent on machine and substrate temperatures.

RECOMMENDED USES

SprayFlex 2.0 is designed specifically for the theming and movie prop industry to produce such items as flexible tree bark; soft, impact absorbing panels eg 'stunt foam' rock walls; crash pads etc.



**HEALTH AND SAFETY
ADVICE**

Refer to Polymer Group Safety Data Sheets for individual products.

Component A [isocyanate] is a modified isocyanate, based on 4,4-diphenylmethane diisocyanate (MDI). It is moderately toxic. **Avoid contact with skin or eyes, avoid breathing vapour** and use only in well ventilated areas.

Component B [polyol] is a mild irritant.

Use with full face cartridge respirators with adequate ventilation or failing that use air fed respirators with extraction. Only trained personnel allowed in work room during spraying.



PACKAGING

400 Litre Kit comprising
SprayFlex 2.0 Part A 250kgs
SprayFlex 2.0 Part B 210kgs



APPLICATION DATA

Equipment

High pressure, plural component spray machine only

Pre-heat: Part A (isocyanate) 40-60°C
Part B (polyol) 40-60°C

Hose Temperature: 45-65°C

Machine Pressure: 1400-1800 psi

Thickness: 10-40 mm

Demould: 15-30 minutes at 20°C

Full Cure: 24 hours Application:

Build up thickness by making multiple passes. **DO NOT THIN PRODUCT**

SprayFlex 2.0 Part B must be agitated prior to each use.

Optimum temperatures will vary with equipment, substrate temperature and ambient conditions generally. Check and maintain correct output ratio to $\pm 2\%$. Ensure metering is accurate by regular ratio checks and monitoring of line pressures to gun. Operator must have adequate product knowledge to recognise faulty foam so remedial action can be taken.

Theoretical Yield

Always check yield and application rates. Adequate allowance must be made for overpacking, especially when cavities are narrow or foam has a long flow path.

Material Usage: 10.0-12.5kgs of SprayFlex 2.0 foam per square metre at a spray applied thickness of 50mm (theoretical).



STORAGE AND HANDLING PRECAUTIONS

All chemical materials should only be used by trained personnel.

Component A (isocyanate) contains methylene bisphenyl diisocyanate (MDI). It is an irritant and allergic sensitiser. It is moderately toxic. **Avoid Contact with skin or eyes, avoid breathing vapour** and use only in well ventilated areas.

Component B (polyol) is a mild irritant. Provide ventilation or use only in well ventilated situations.

Always wear **eye protection** and suitable **protective clothing**. **Flush splashes to the skin or eyes with copious quantities of water.'**

Clean up

Owing to the chemical resistance of polyurethane products it is important to clean up any surplus as quickly as possible. Methyl Proxitol is suitable for general cleaning and methylene chloride can be used as a line flush. **Wear suitable protective clothing, goggles and gloves at all times when cleaning.** Greasing components beforehand assists with contamination removal.

Storage

Store at temperatures between 15° and 26°C in tightly closed containers to prevent moisture and other contamination. If exposed to moisture Component A will crystallise resulting in line blockages.

Shelf Life

Minimum 6 months.

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