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TECHNICAL DATA
Eraspray FS320

SOFT FLEXIBLE POLYURETHANE SPRAY FOAM

Eraspray FS320 a two component MDI/polyether flexible polyurethane spray foam. The system is primarily designed where the good rebound properties can be used in certain applications (see below). This material contains a fire-retardant and has a quick set reaction profile.

The flexible spray system has uses in the special effects industry for modeling real life structures such as tree bark and other objects where the flexible properties of the material could be useful e.g. cushion pads and impact absorbing panels. The flexible spray system may also find uses in composite layered products, where it can be backed up by rigid materials.

Benefits of using this product:

- Contains No CFC's (Chlorofluorocarbons)
- 100% solids / zero VOC 's
- Good re-bounce properties
- Soft feel polyurethane foam

The product is designed for use through high-pressure plural dispensing spray equipment. We recommend and sell the range of GUSMER polyurethane plural dispensing equipment and parts.

COMPONENT PROPERTIES

| | Polyol | Isocyanate |
|--|-----------------------|-------------------------------------|
| Appearance | Apricot opaque liquid | Pale amber to straw coloured liquid |
| Brookfield Viscosity @ 50°C (cps) | 230 | 250 |
| Specific Gravity @ 50°C | 1.01 | 1.15 |
| Brookfield Viscosity @ 20°C (cps) | 820 | 1260 |
| Specific Gravity @ 20°C | 1.02 | 1.17 |

TYPICAL REACTION PROFILE

Mix ratio by weight (Polyol: Isocyanate) **100:102**
Mix ratio by volume (Polyol: Isocyanate) **100:100**

| | Hand-mixed @ 50°C * | Machine mix |
|---------------------------------|----------------------------|--------------------|
| Mix Time (seconds) | 3 | |
| Cream Time (seconds) | 2 - 4 | TBC |
| Gel Time (seconds) | 6 - 15 | TBC |
| Tack-Free Time (seconds) | 30 - 60 | TBC |

*Based on 200 gram mixed sample.

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.



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TYPICAL PHYSICAL PROPERTIES

| | | |
|-------------------------------------|-----------------------|--|
| Free Rise Density (hand-mix) | 320 kg/m ³ | |
|-------------------------------------|-----------------------|--|

STORAGE CONDITIONS AND HANDLING

The components are sensitive to humidity and should at all times be stored in sealed drums. The recommended storage temperatures are 18-25°C, which will give a normal shelf life of 6 months. At elevated temperatures problems may arise with pressure build-up within the drums. When opening these drums extreme care must be exercised in releasing the internal pressure. It is recommended that the drum contents should be mixed well before use.

HEALTH AND PERSONAL PROTECTION

Before handling these chemicals please consult the Material Safety Data Sheets for the two components. The polyol component contains tertiary amines. Contact with the skin or eyes must be avoided. Safety goggles and protective gloves should be worn whenever handling both of the chemicals. Splashes that come into contact with the skin must be wiped off immediately and the contaminated area washed with soap and water. Splashes in the eye must be flushed immediately with plenty of clean running water. If irritation occurs thereafter contact an eye specialist.

As this product is designed for spray applications, extreme care should be taken to avoid inhalation of chemical vapours generated when spraying. Ensure adequate ventilation is available and use appropriate breathing apparatus.



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