

# ENDURATHANE 2625NF-100R

## RIGID FOAM SYSTEM

Meets Requirements of Standard Specification NZ 4602 1988  
For Standard Heat Loss Tests – Class A

### DESCRIPTION:

**ENDURATHANE 2625NF-100R** is a two component, low density, rigid polyurethane foam system with dual gas blowing mechanism utilising the latest CFC free technology, without any significant alteration to insulation value or other physical properties.

**ENDURATHANE 2625NF-100R** has been especially formulated to minimise long term corrosion problems in applications involving elevated temperatures, particularly in the presence of metal substrates such as copper and stainless steel.

Good flow, medium reactivity and positive cure are features of **ENDURATHANE 2625NF-100R** which contribute to rapid processing and high productivity. These properties are coupled with good mechanical strength, low thermal conductivity and ease of handling.

### RECOMMENDED USES:

**ENDURATHANE 2625NF-100R** has been developed especially for the insulation of domestic hot water cylinders, dairy tanks, pipelines and panels where good flow and ease of machine processability is required.

In some applications a higher density version may be necessary. Please consult your Polymer Developments representative for a recommendation if in doubt.

### APPLICATION DATA

**ENDURATHANE 2625NF-100R** should be machine-applied through 2-component polyurethane application equipment such as *Glas-Craft Probler* or similar.

Please consult your representative or our Contracts Manager for advice regarding any application questions you may have.

### PHYSICAL PROPERTIES:

#### a) Components

Reactivity:

Cream Time (20°C)	25 secs
Gel Time	120 secs*
Rise Time	165 secs*

\*dependent on substrate temp.

#### b) Cured Material

Density (free rise)	26-27 kg/m <sup>3</sup>
Thermal Conductivity (Kcal/m <sup>2</sup> hr °C)	0.019-0.023
Compressive Strength	150 kN/m <sup>2</sup>
Closed Cells	90-95%

### Theoretical Yield Rate

Density Wt/m <sup>2</sup> @ 50mm thick	
30 kg/m <sup>3</sup>	1.5 kg
40 kg/m <sup>3</sup>	2.0 kg

### Component Mix Ratio

1 : 1 by volume (maintain regular machine calibration checks and foam quality QC procedures).

### Pack Sizes

200 litre non-returnable drums  
20 litre non-returnable pails

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## APPLICATION DATA

ENDURATHANE 2625NF-100R should be machine-applied through 2-component polyurethane application equipment such as *Glas-Craft Probler* or similar.

Please consult your representative or our Contracts Manager for advice regarding any equipment application questions you may have.

### *Equipment: Glas-Craft Probler*

Static line pressures - 1000 kPa

Pre-heat: Part A [isocyanate] 25°C

Part B [polyol] 25°C

Hose Temperature: 25-30°C

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.

### *Substrates:*

Endurathane 2625NF-100R may be applied to most surfaces. Substrates must be clean and dry.

**Ambient and surface temperatures** should be above 15°C. **Low temperatures will decrease yield markedly.**

### *Theoretical Coverage*

Always check yield and application rates at start of job and then regularly to ensure product usage is as expected. Pay special attention when applying on to a profiled substrate to determine the "flat" area. This can often be as much as 25% greater than the measured area. Similarly adequate allowance must be made for overpacking, especially when cavities are narrow or foam has a long flow path.

1kg of foam occupies 0.038 cu.m [0.76 sq.m @ 50mm] applied under ideal conditions [1sq.m = 1.33kg @ 50mm].

### *Handling Precautions:*

*All chemical materials should be used by trained personnel.*

**Component A [isocyanate]** contains methylenebisphenyldiisocyanate [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]** contains HCFC, a volatile blowing agent. It is a mild irritant. In confined spaces it may displace sufficient air to be hazardous. 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 overspray 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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## POLYMER GROUP LTD

PO Box 204 106, Highbrook, Auckland 2161, New Zealand

Telephone: 64-9-274 1400 Fax: 64-9-274 1405

Email: [sales@polymer.co.nz](mailto:sales@polymer.co.nz) [www.polymer.co.nz](http://www.polymer.co.nz)