



# TECHNICAL DATA

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## FLEX-THANE 16705 FLEXIBLE URETHANE ARTIFICIAL ENVIRONMENT SYSTEM

### Product Description

A fire retardant urethane elastomer specifically designed for ITW Futura Coatings patented **FLEX-BARK** and similar systems. This product is solventless and cures in minutes to facilitate fast production of surface sheets.

Has passed the fire test criteria for:

- ASTM E-84 Class 1
- ANSI Z124.1-05.

### Features

- 100% Solids
- Zero VOC
- Fire Retardant
- Flexible
- Fast-Cure/Rapid Production
- Convenient 1:1 Mix Ratio

### Recommended Uses

Used in the manufacturing of:

- **FLEX-BARK**
- Flexible brick and stone
- Flexible **FUTURA-ROCK**
- Various other similar products

### Typical Properties

<b>Solids by Volume</b> (ASTM D-1353)	100%
<b>Volatile Organic Compounds</b>	0.0 lbs/gal (0 g/l)
<b>Theoretical Coverage</b>	1604 mil ft <sup>2</sup> /gal
<b>Recommend DFT</b>	60-150 mils
<b>Flash Point- PMCC</b>	250°F (121°C)
<b>Mix Ratio</b> (by volume)	1 "A" : 1 "B"
<b>Viscosity-LV4/60RPM</b>	A Component 400 cps B Component 2300 cps
<b>Shelf Life @ 60-110°F (16-43°C)</b>	9 months
<b>Color</b>	Neutral

### Specification Data

<b>Elongation</b> – ASTM D 412 @ 75°F	150%	
<b>Tensile Strength</b> – ASTM D 412	1200 psi	
<b>Hardness</b> – ASTM D 2240	84 Shore A	
<b>Fire Testing</b>	ASTM E-84 Class 1 ANSI Z124.1-05	Passes Passes

### Ordering Information

<b>Packaging:</b>	110 gal kits
<b>Shipping Weight:</b>	12.5 lb/gal (5.7 kg/gal)

# APPLICATION INFORMATION

## FLEX-THANE 16705

### General Equipment Information

- Pump: Heated airless plural component proportional pump such as the Gusmer H-20/35 electric hydraulic unit or approved equal.
- Hoses: 2 thermostatically controlled 3/8" ID high pressure airless hoses for fluid, 1 low pressure air hose to gun.
- Gun: Plural component impingement mix airless spray gun such as the Gusmer GX7, GX7D.I., GX8-Pro or approved equal.
- Transfer Pumps: Use two 2:1 ratio high volume fluid transfer pumps equipped with 3/4" ID discharge lines.
- Air requirements: 30-35 CFM at 100 psi or combination of all of the above.
- Electrical requirement: 1 or 3-phase 220V 60-80 AMP service depending on electric motor purchased with pump.

### Application Parameters

- Material Temperature: Both A & B components should be maintained at 75-85°F (24-29°C) prior to application.
- Preheater Temperature: Both A & B component preheater temperatures should be set at 140°F (60°C).
- Hose Heat: The hose heat should be set to maintain the 140°F (60°C) to gun. At 140°F, the material viscosities are close to equal so as to affect a better flow and mixing capability at the gun.
- Pressure Settings: The proportioning should be set as to affect equal operation fluid pressures at a minimum of 2600 psi while spraying. The transfer pumps should be supplied with 90-100 psi at 10 CFM.

### Safety Information

- Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information.
- Do not apply material in enclosed areas without adequate air exchange and ventilation.
- All application personnel must use fresh air respirators or fresh air hoods.
- Wear protective clothing, gloves and eye protection.
- Breathing fumes or contact with the skin may cause severe allergic reactions.
- **This product is intended for industrial use by properly trained professional applicators only.**

### Storage Conditions

- Urethane coatings need to be protected from moisture contamination. Store drums and pails in a dry location at 60-90°F (16-32°C).
- Drums **must** be kept sealed at all times with a positive feed dry air, nitrogen blanket or desiccant cartridge system.
- Materials **must** be kept above 50°F (10°C).

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