URECON
PRE-INSULATED PIPE

Submittal Data #258
Urecon Foam Kits®

Short Form Specifications
Field applied two component urethane foam shall be provided using Urecon Foam Kits as supplied by Urecon, or approved equal. Once the same thickness of insulation as that on the pipe has been applied, the foam shall be protected with an appropriate coating or jacket. For below grade applications, an asphaltic based mastic is most commonly used (refer to Urecon's mastic submittal data sheet #125E for details). For above grade applications, the jacket shall be consistent with what is specified on the insulated pipe jacket.

Product Description
The Urecon Foam Kit is a self contained, portable two-component polyurethane foam dispensing system that requires no outside power source and is disposable when empty (consult local authorities for proper disposal).
All Urecon Foam Kit materials have been formulated utilizing HCFCs rather than traditional CFCs. HCFCs are 20 times less hazardous to the earth's ozone layer than CFCs. The kits are supplied in convenient, factory pressurized dispensers, sized to facilitate most needs. Kits are supplied with a gun-hose assembly and standard spray nozzles, packaged in sturdy cardboard containers.
Spare or replacement parts may also be ordered separately (e.g. standard spray nozzles, gun-hose assemblies, etc.)

Sizes

Kit Model No.	Density* PCF (kg/m^3)	Theoretical Yield		Kit Contains	Ordering Information
		Board Feet	Cubic Feet (m^3)		
Urecon Foam Kit # 200	2.00 (32.11)	200	16.67 (.47)	One A can, one B can,10 spray nozzles, 3 m *(10 ft)* gun-hose assembly, wrench, and Vaseline packet	17.2 kg *(38 lbs)* /unit 30 units/pallet
Urecon Foam Kit # 600	2.00 (32.11)	600	50 (1.42)	As above except with 9.1m *(30 ft)* gun-hose assembly	51.3 kg *(113 lbs)* /set (2 cartons/set) 12 sets/pallet, plus one carton each for the hose assembly

Note: The theoretical yield listed has become an industry standard for identifying certain sizes of two component kits in relation to their general output of mixed foam. End use application and environmental conditions affect actual yield.

Limitations
Not intended for use in applications where temperatures exceed 121^{0}C *(250^{0}F)*. Must be shielded from ultraviolet radiation, otherwise degradation will occur over time.

Standards, Tests & Approvals
Urecon Foam Kit two component polyurethane foam systems have been tested to a wide variety of ASTM standards as per the chart "Typical Physical Properties" on the next page.

Application
Every Urecon Foam Kit includes instructions which offer information on operation, troubleshooting, yield, application tips, quality control, curing, storage, disposal, first aid, and related information. A Material Safety Data Sheet (MSDS) is available upon request.

Precautions
Avoid contact with eyes and skin. Always wear protective eyewear, gloves and clothing when operating. Use only with adequate ventilation or NIOSH-certified respiratory protection. In unventilated areas, do not remove respirator for at least 15 minutes after use. Contents under pressure. To avoid possible explosion or fire, do not puncture or incinerate. Do not refill or re-pressurize. Do not expose cylinders to temperatures above 49^{0}C *(120^{0}F)*. The foam produced is combustible. Do not expose to heat, sparks or open flame. This product is not intended for use in applications where temperatures exceed 121^{0}C *(250^{0}F).* Store at temperatures between 16^{0}C and 27^{0}C (*60^{0}F and 80^{0}F)*.

NOTE: Avoid overfilling restricted spaces. Chemicals exert force during reaction and an uncontrolled expansion of foam may result, spraying you and the work area.
Warning: The foam produced by the Urecon Foam Kit is organic and combustible; the product may constitute a fire hazard if improperly used.

Building Codes The use of this product may be restricted or prohibited in certain areas by local building codes covering the use of cellular plastics. Always check local code(s) before using product.

TYPICAL PHYSICAL PROPERTIES*

PROPERTY	ASTM TEST METHOD	RESULT
Flexural Strength Parallel, psi Perpendicular, psi	C-203	 23.0 42.6
Apparent K Factor (BTU)in)/(ft^2)hr)^{0}F) Initial Aged 6 months Aged 12 months Aged 18 months Aged 24 months	C-518	 0.143 0.187 0.196 0.204 0.208
Apparent R Value @ 1" (derived from K Factor) Initial 18 months	-	 7.0 4.9
Accelerated Service Conditions Procedure A % Volume Change % Weight Change Procedure B % Volume Change % Weight Change Procedure E % Volume Change % Weight Change	D-756	 2.97 -1.75 1.05 -2.19 9.91 -2.84
Compressive Strength Parallel, psi Perpendicular, psi	D-1621	 22.0 8.4
Apparent Density, pcf	D-1622	2.25
Water Absorption (% water absorbed)	D-2842	2.5
Dimensional Stability (% vol change) 100^{0}F/100% RH, 1 week 100^{0}F/100% RH, 2 weeks 158^{0}F/100% RH, 1 week 158^{0}F/100% RH, 2 weeks -40^{0}F/amb RH, 1 week -40^{0}F/amb RH, 2 weeks -100^{0}F/amb RH, 1 week -100^{0}F/amb RH, 2 weeks 158^{0}F/amb RH, 1 week 158^{0}F/amb RH, 2 weeks 212^{0}F/amb RH, 1 week 212^{0}F/amb RH, 2 weeks	D-2126	 0.38 0.91 15.57 14.02 -0.40 -0.04 -3.70 -1.13 3.70 3.65 1.48 1.16
Open Cell Content	D-2856	<8%
Tensile Strength Parallel, psi Perpendicular, psi	D-1623	 40.1 27.2
Shear Strength Parallel, psi Perpendicular, psi	C-273	 23.9 19.8
Water Vapor Transmission (perm-in)	E-96	3.0

*Copy of test results available upon request.

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