

### Product Description:

**DUREX INSULITE** is an exterior insulation and finish system. The system consists of either expanded or extruded polystyrene insulation, insulation adhesive and mechanical fasteners, glass fibre reinforcing mesh, base coats, and a finish texture coat which can be selected from any one of the available

### Durex Architectural Coatings.

The **DUREX INSULITE** system is ULC rated as non-combustible cladding meeting building code requirements for non-combustible construction.

As an added feature the **DUREX INSULITE** system can be used with a membrane air barrier as an integral part of the system.

### Uses:

**DUREX INSULITE** is suitable for use over a wide range of structurally sound substrates. It is also an excellent system for retrofit work.

### Advantages:

- ULC rated cladding system
- light-weight
- versatile
- flexible
- economical

### Limitations:

**DUREX INSULITE** is not recommended for use over moisture sensitive substrates such as gypsum board, nor in areas where temperatures are expected to exceed 80°C.

### APPLICATION:

Prepare and mix primer, base coats, and finish coats in strict accordance with Durabond's printed instructions.

Apply all system materials in strict accordance with Durabond's printed instructions. Make all provisions for all expansion/control joints required in the system.

## TECHNICAL DATA

### SYSTEM COMPONENTS

#### INSULATION:

- EPS\*type I & II, XPS\*\*type IV

CAN/ULC S701-97

#### INSULATION ADHESIVE:

- Durex Mastic 100
- Durex Flexcrete

ASTM D-897 - bond strength  
ASTM D-897 - bond strength

#### LAMINA:

- Reinforcement woven fiberglass mesh

ASTM D-579 - construction  
ASTM D-579 - weight  
ASTM D-579 - thickness  
ASTM D-1682 - tensile strength  
ASTM D-568 - flame retardant  
EIMA 101.91 - alkali resistance

- Durex Uniplast/Acrybond "S" Lamina

EIMA 101.86 - impact resistance  
  
CAN/ULC S114-89 - non-combustibility  
  
ASTM E96-95 Water vapour transmission  
48 hrs. immersion - water absorption

### RESULTS

plywood - 35 psi  
concrete - 185 psi  
cement board - 125 psi

Std.	Med.	High	
23.6	23.6	33	/10 cm
152	370	509	g/m2
0.406	0.787	1.13	mm
825	1610	3115	N/2.54 cm
yes	yes	yes	
yes	yes	yes	

Std. mesh (one layer): 145 in. lbs.  
High impact mesh: 160 in. lbs.  
Two layers mesh: 272 in. lbs.  
Rated non-combustible  
ULC Guide No. 40 U18.14.14  
221.8 ng/Pa·s·m2  
5.8%

## TECHNICAL DATA (cont'd.)

### FINISHES:

• Durex Architectural Coatings (see also Group F)	CGSB 1GP-162M	Meets all requirements
	ASTM D822-91 - accelerated weathering	Specimen did not blister, check, crack, chalk or change colour
	CAN/ULC S102-M83 - flame spread - smoke developed - fuel contributed	8 Less than 5 Less than 5

TEST	STANDARD/METHOD	RESULTS
<b>Fire Protection:</b>	CAN/ULC S101-89	Rated as non-combustible cladding ULC design #EW1, EW2, EW10, EW13
<b>Fire Rating:</b>	CAN/ULC S101-89	Fire rated 1 hr from exterior, 1-1/2 hrs. from interior ULC design W442
<b>Air Leakage:</b>	ASTM E283-91 - infiltration	0.095 L/s·m2 before windload testing 0.0249 L/s·m2 after windload testing
<b>Wind Load Resistance:</b>	ASTM E330-90 - sustained	-2.5 kPa for 60 min. – no visible damage to any of the wall components
	ASTM E330-90 - cyclic	600 cycles alt. 0 to -2.5 kPa – no visible damage to any of the wall components
	ASTM E330-90 - blow-out	-3.75 kPa applied for 10 sec. – no visible damage to any of the wall components – maximum pressure 7.12 kPa
<b>Water tightness:</b>	ASTM E331-86	400 Pa pressure difference for 15 min. – no water penetration through the exterior surface finish observed

### Building Code Conformance:

**Classification:** Meets NBC (National Building Code) and OBC (Ontario Building Code) non-combustible Cladding requirements for use in buildings required to be of non-combustible construction of any building height, as per section 3.2.3.7.1(b) ULC design #EW1, EW2, EW10, EW13 and ULC design W442.

**Option Air or Air/Vapour Barrier:** Durex Insulite can be installed incorporating an air or air/vapour barrier within the assembly. Check with Durabond for recommendations on appropriate air/vapour barrier for your project.

If a membrane air barrier would be part of the **DUREX INSULITE** system install the membrane to membrane manufacturer's printed instructions.

Install the selected insulation over the substrate with a full bed of compatible insulation adhesive. In addition to the adhesive, mechanically fasten the insulation boards, together with the layer of base coat and reinforcing mesh. Over the cured base coat apply a layer of base coat, then the primer and then the finish texture coat.

Caulk all expansion/control joints in the **DUREX INSULITE** system.

Refer to the Durex Architectural Manual for further information.

### CLEAN UP:

Clean all tools promptly after use with clean water. Do not allow mixes to dry on tools.

### STORAGE:

Store all **DUREX INSULITE** components in a dry vented, waterproof location, stacked off the ground

with ambient temperatures above 5°C (41°F). Keep materials dry, protected from dampness and moisture and away from direct sunlight. **KEEP FROM FREEZING.**

### WARRANTY:

**Durabond Products Limited** fully warrants their products when used and applied in strict accordance with the printed instructions on product mixing and product application. In any case **Durabond's** responsibility shall not exceed either the refund of the purchase price, or the replacement of the purchased product.

### TECHNICAL SERVICES:

Technical assistance for unique applications and design is available upon request from **Durabond Products Limited**.

# DURABOND

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