

# Durex Quantum Select MF

## Advanced-Drained Moisture Managed Exterior Insulation and Finish System (Mechanically Fastened)

- Description** Durex® Quantum Select MF is an exterior insulation and finish system consisting of expanded polystyrene insulation with factory-cut channels, insulation adhesive, 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.
- Uses** Durex® Quantum Select MF is suitable for use over a wide range of structurally sound substrates and is recommended for use in buildings which require moisture-managed cladding.
- Features**
- CCMC listed (13103-R)
  - Continuous venting at floor lines and horizontal terminations, using pre-manufactured vented boards
  - Positive drainage (through a network of vertical and horizontal channels)
  - Continuous air/vapour barrier
  - Simple interfacing with other pressure equalized claddings
  - 2-hour fire rating in accordance with ULC W-456
  - Economical
  - Aesthetic design flexibility
  - **GDDC Factor 47% (Geometrically Defined Drainage Cavity)**
  - **CI factor 0.65 RSI (R 3.9) per inch (Continuous Insulation)**
  - **CI factor 0.70 RSI (R 4.0) per inch Type II EPS (Continuous Insulation)**

### TECHNICAL DATA

SYSTEM COMPONENT	STANDARD/METHOD	RESULTS			
<b>INSULATION:</b>					
Durex Quantum Select Type I	CAN/ULC S701	<b>Thermal Resistance</b>		<b>GDDC Factor</b>	
Durex Quantum Select Type II		0.65 RSI (R 3.9) per inch	47%	0.70 RSI (R 4.0) per inch	47%
<b>WATER RESISTIVE BARRIER:</b>					
<b>Air / Vapour Barriers</b> Durex Flexseal	ASTM E96 – Water Vapour Transmission	<b>Method A</b>	<b>Method B</b> 2.9 ng/Pa.s.m <sup>2</sup>		
<b>Air Barriers</b> Durex Flexseal VP Durex AirStop	(Refer to product specific Technical Data Sheet for more detailed data)	629 ng/Pa.s.m <sup>2</sup> 185 ng/Pa.s.m <sup>2</sup>	972 ng/Pa.s.m <sup>2</sup>	505 ng/Pa.s.m <sup>2</sup>	
<b>INSULATION ATTACHMENT:</b>					
-Durex“M” fasteners (masonry)	ASTM B-117 – salt spray	750 hrs. or better			
-Durex “W” fasteners (wood)	DIN 50012 - SO <sub>2</sub> exposure	25+ cycles			
-Durex “S” fasteners (steel)	FM4470 & DIN 50018 SFW	30 cycles Pass			
<b>LAMINA:</b>					
<b>Impact Resistance</b> Durex Fiberglass Mesh (Note: Impact resistance level is directly related to the weight and layers of Fiberglass mesh used in the lamina)	ASTM E2486 – Impact Resistance  (Refer to Table 1.5.9 of the Quantum Select MF Specifications for detailed selection chart for guidance on level of impact resistance required)		<b>Retention Physical</b>	<b>Retention Performance</b>	
		Standard	3 N.m	10 N.m	PASS
		Intermediate	8 N.m	15 N.m	PASS
		High	13 N.m	20 N.m	PASS
		Ultra High	20 N.m	30 N.m	PASS
		Extreme	25 N.m	40 N.m	PASS
<b>Base Coat</b>					
Durex Uniplast/Acrybond “S” Durex Monobase	CAN/ULC S114 Noncombustibility	Rated Noncombustible Rated Noncombustible			
<b>FINISHES:</b>					
<b>Durex Architectural Coatings</b> Classic Series Premium Series Artisan Series Kolor Gard Series Elastomeric (FX) Series	CAN/ULC S716.1 & CCMC Report # 13103-R  (Refer to product specific Technical Data Sheet and CCMC Evaluation Report # 13103-R for more detailed data)	Durex Architectural Coatings Meet and exceed all requirements			

**PERFORMANCE:***(Refer CCMC Evaluation Report # 13103-R for complete detailed performance data)*

<b>Fire Protection</b>	CAN/ULC S101 & CAN/ULC S114 <i>(Compliance to NBC 3.2.3.8(1) (b) )</i>	Rated as non-combustible cladding ULC design EW21/ EW22/EW23
	CAN/ULC S101 <i>(Fire Resistance rated Assemblies)</i>	1 hr. FR rating ULC design W489 (Load Bearing) 2 hrs. FR rating ULC design W485 (Load Bearing) 2 hrs. FR rating ULC design W456 (Non-Load Bearing)
	CAN/ULC S134 <i>(Compliance to NBC 3.1.5.5)</i>	Intertek listing # DPL-WEIFS 30-01
<b>Wind Load Resistance</b>	ASTM E330 – sustained	-2.5 kPa for 60min. – no visible damage to any of the wall components
	ASTM E330 – cyclic	600 cycles alt. 0 to -2.5kPa – no visible damage to any of the wall components
	ASTM E330 – blow-out	-3.75kPa applied for 10 sec. – no visible damage to any of the wall components - max. pressure 7.12 kPa
<b>Water Tightness</b>	ASTM E331	400 Pa pressure difference for 15 min. – no water penetration through the exterior surface finish
<b>System Compliance</b>	CCMC Technical Guide for EIFS CAN/ULC S716.1 EIFS Materials & System	CCMC Evaluation Report # 13103-R Durex Quantum Select MF is fully compliant with: CAN/ULC S716.1 Materials & System CAN/ULC S716.2 Installation of Components & WRB CAN/ULC S716.3 Design Application

**Building Code Conformance:****Durex® Quantum Select MF complies with the following building code requirements (refer to applicable building code)**

<b>Classification</b>	Category 1 CAN/ULC S114 & CAN/ULC S101 CAN/ULC S134	Non-Combustible Lamina Fire Test of Exterior Wall Assemblies
<b>Part 3</b>	Article 3.1.5.5 Article 3.1.5.2 Article 3.2.3.7 & Table 3.2.3.7 Sub-Section 3.2.3.8 (1) (b)	Combustible Cladding on Exterior Walls Allowable Minor Combustible Components >10% Unprotected Openings CAN/ULC S101 – 15 minutes – Non-Combustible Base Coat
<b>Part 5</b>	Section 5.6.1 Sub-Section 5.6.2.1 Section 5.9.4	Protection from Precipitation Sealing and Drainage Exterior Insulation Finish Systems
<b>Part 9</b>	Clause 9.25.2.2(1)(d) Sub-Section 9.25.5.2 Clause 9.27.1.1(5) Section 9.27.2 Article 9.27.3.1 Sub-Section 9.27.13 Article 9.10.14.5 & Table 9.10.14.5 (A) Article 9.10.15.5	Insulation Materials CAN/ULC S701 Position of Low Permeance Membranes General (Cladding, Application) Required Protection from Precipitation Elements of Second Plane of Protection Exterior Insulation Finish Systems >10% Unprotected Openings >0.6 m Limiting Distance

**Application** Apply all Durex System Products and components, (WRB, insulation, fasteners, base coat, reinforcing mesh, finish coat, sealants) in strict accordance with Durabond's printed instructions. See Durabond's Standard Specifications/Details and Durex Product Data Sheets.

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

**Storage** Store all Durex® Products and 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.

**Health and Safety** For information and advice on the safe handling, storage and disposal of chemical products, refer to the most recent SDS sheet containing physical, environmental, toxic and other safety/materials handling data. For industrial use only. Keep out of reach of children.

**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 support is available upon request at [info@durabond.com](mailto:info@durabond.com). For the latest version of this data sheet, please visit our website at [www.durabond.com](http://www.durabond.com), call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Products Ltd. sales representative.

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