

Durex® Diamond Plus

High-Strength, Point Impact Resistant EIFS Lamina Enhancement System

Description Durex® Diamond Plus is specially formulated point impact load resistant EIFS lamina system engineered to protect and prevent damage caused by woodpeckers, similar types of wildlife and other types of point load exposure. Durex® Diamond Plus consists of specially formulated non-combustible polymer modified base coats, Durex® Diamond Plus and Durex® Diamond Flex. Durex® Diamond Plus, the first layer in the system, is a coarse, 2-component impact resistant base coat. Durex® Diamond Flex, the second layer, is a fine, flexible one-component base coat. The system is then finished with any Durex® Architectural Finish.

The Durex® Diamond Plus lamina system can be installed as an enhancement to the Durex® Quantum, Durex® Flexlite, Durex® Insulite and Durex® Equalite continuous insulation systems, or as a retrofit over existing EIFS lamina. For new EIFS applications, Durex® Diamond Plus is installed over a layer of Durex® Base Coat with Durex® Reinforcing Fibreglass Mesh. In retrofit applications, Durex® Diamond Plus can be applied over properly prepared existing EIFS lamina. Durex® Diamond Plus system utilizes a non-combustible lamina, and meets building code requirements for non-combustible construction.

Uses Durex® Diamond Plus can be applied over a wide range of structurally sound substrates. It is recommended for use in geographic areas where woodpecker and other related damage is common.

- Features**
- Greatly increased point load impact resistance over standard EIFS lamina
 - Can be installed on both new Durex® EIFS systems and overtop of existing EIFS systems
 - Excellent compressive and flexural strength
 - Coarse, dense material for higher strength
 - Highly flexible second layer for excellent crack resistance
 - Excellent adhesion to EPS, EIFS lamina and existing EIFS
 - Excellent freeze-thaw stability
 - CAN/ULC S716 compliant
 - CCMC listed (13103-R)
 - Economical

TECHNICAL DATA

SYSTEM COMPONENT	STANDARD/METHOD	RESULTS			
LAMINA:			Retention	Retention	
Impact Resistance	ASTM E2486 – Impact Resistance		Physical	Performance	
Durex Fiberglass Mesh		Standard	3 N.m	10 N.m	PASS
(Note: Impact resistance level is directly related to the weight and layers of Fiberglass mesh used in the lamina)	(Refer to Table 1.5.9 of the Quantum Select Specifications for detailed selection chart for guidance on level of impact resistance required)	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
Base Coat					
Durex Diamond Plus	CAN/ULC S114 Noncombustibility	Rated Noncombustible			
Durex Diamond Flex		Rated Noncombustible			
(Refer CCMC Evaluation Report # 13103-R for complete detailed performance data)					

PERFORMANCE:

Fire Protection	CAN/ULC S101 & CAN/ULC S114 (Compliance to NBC 3.2.3.8(1) (b))	Rated as non-combustible cladding ULC design EW21/EW22/EW23
	CAN/ULC S101 (Fire Resistance rated Assemblies)	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) Intertek listing # DPL-WEIFS 30-01
	CAN/ULC S134 (Compliance to NBC 3.1.5.5)	
	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
Water Tightness	ASTM E331	400 Pa pressure difference for 15 min. – no water penetration through the exterior surface finish
System Compliance	CCMC Technical Guide for EIFS CAN/ULC S716.1 EIFS Materials & System	CCMC Evaluation Report # 13103-R Fully compliant with: CAN/ULC S716.1 Materials & System CAN/ULC S716.2 Installation of Components & WRB CAN/ULC S716.3 Design Application

Application	<p>NEW DUREX® EIFS INSTALLATIONS: Durex® Diamond Plus is installed as part of the Durex® Diamond Plus woodpecker protection system as an enhanced lamina to Durex® Quantum, Durex® Flexlite, Durex® Insulite and Durex® Equalite series of EIFS systems. Durex® Diamond Plus is to be installed over of a layer of Durex® EIFS base coat (Durex® Flexcrete, Durex® Monobase or Durex® Uniplast/Acrybond 'S') that has been embedded with Durex® Fibreglass Reinforcing Mesh.</p> <p>RETROFIT APPLICATIONS: Durex® Diamond Plus is to be applied over existing sound EIFS lamina for restoration/retrofit Applications. Surface to be coated must be clean, free of dirt, debris, ice/frost or any materials deleterious to adhesion. Surfaces are recommended to be pressure washed prior to installation.</p>
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 . For the latest version of this data sheet, please visit our website at www.durabond.com , call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Technical Coatings Ltd. sales representative.

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