Durex® Uraflex 360/375 UV

Polyurethane Elastomeric Traffic Bearing Waterproofing System for Balconies & UV Exposed Pedestrian Surfaces

Description

Durex® Uraflex 360/375 UV Polyurethane Elastomeric Traffic Bearing Waterproofing System is a solvent free, high-performance deck coating system for balconies and pedestrian traffic subject to UV exposure. The system consists of an elastomeric, self-priming membrane base coat, Durex® Uraflex 360NP and an abrasion, UV-resistant topcoat, Durex® Uraflex 375 UV. Durex® Uraflex 360/375 UV is a UV-resistant, traffic bearing protective waterproofing system which is aesthetically pleasing, resistant to dirt pick-up and is easy to clean.

Uses

Durex® Uraflex 360/375 UV is intended for use as a protective waterproofing pedestrian deck coating system for concrete, exterior grade plywood, and metal surfaces.

Ideal For

- Balconies
- Plazas
- Decks
- Roof terraces

Features

- Abrasion resistant and elastomeric
- Non-skid and decorative
- Waterproof
- Potential LEED Credits
- Solvent free; minimal disturbance to tenants
- UV resistant, durable and long-lasting
- Easy to clean
- Protects from hairline cracks

TECHNICAL DATA

PHYSICAL PROPERTIES		
	URAFLEX 360NP BASECOAT	**URAFLEX 375 UV TOPCOAT**
Colour	Light Grey	Please see *Durex® Colour Selection Guide* for available colour options.
Resin Type	Polyurethane	Aliphatic Polyurethane
Mix Ratio	Part B (Urethane) : Part A (Resin) 4:1 by volume	Part A (Resin):Part B (Urethane) 2:1 by volume
Coverage	53 ft^2/gal @ 30 mils DFT	106 ft^2/gal @ 15 mils DFT
Cure Time @ 23°C	To touch: 6 hours To recoat: 8 hours	To touch: 5 hours To recoat: 6 hours Traffic: 24 hours
Pot Life @ 23°C	20 minutes	20 minutes
Recommended Film Thickness	30 mils DFT	15 mils DFT
Recycled Content	51%	53%

TEST	METHOD	URAFLEX 360 BASECOAT	URAFLEX 375 UV TOPCOAT
Percent Solids	ASTM D7232-06	99%	100%
V.O.C.	ASTM D3960	5 g/L	0 g/L
Specific Gravity	ASTM D333	1.19 ± 0.05 g/L	1.25 ± 0.05 g/L
Mixed Viscosity (23°C)	ASTM D2196	3300 cps	1500 cps
Abrasion Resistance	ASTM D5178-91 -CS-17 wheel	75 mg loss - 1000 g load, 1000 cycles	11 mg loss - 1000 g load, 1000 cycles
Tensile Strength	ASTM D412	2,500 psi	2,075 psi
Tear Strength	ASTM D624	83 lb/lin.inch	171 lb/lin.inch (30 KN/ lin. meter)
Elongation	ASTM D412	900%	200%
Flexural Modulus	ASTM D522	2 mm film passes - 12 mm mandrel	2 mm film passes - 12 mm mandrel
Low Temperature Flexibility	1/8" Mandrel @ -26°C	Pass	Pass
Water Absorption	ASTM D570	0.25%	< 0.5%
Water Vapour Transmission	ASTM E96-Procedure B	0.05 g/hr·pi^2 - 0.029 g/hr·m^2	
Water Vapour Permeability	ASTM E96	0.20 perm in. - 0.0025 ng/Pa·s·m^2	
Shore A Hardness	ASTM D 2240	67	95
Pull-Off Strength	ASTM D 4541	2.71 MPa (400 psi) over concrete	4.2 MPa (610 psi) over Uraflex 360 membrane
Chemical Resistance	ASTM D412		Pass

Packaging

Durex® Uraflex 360/375 UV Polyurethane Elastomeric Traffic Bearing Waterproofing System is packaged in 18.9 L (5 gal) and 3.78 L (1 gal) kits. This product is available in multiple standard colours. Custom colour matching can also be attained at an additional cost. Please refer to the *Durex® Colour Selection Guide* for all available colour options.

Storage Conditions

Store Durex® Uraflex 360/375 UV Polyurethane Elastomeric Traffic Bearing Waterproofing system in a dry, vented, waterproof location, stacked off the ground, out of direct sunlight and other detrimental conditions. **KEEP FROM FREEZING**.

Surface Preparation

All surfaces to be coated must be free of dirt, oils and any other contaminants that may prevent proper adhesion of Durex® Uraflex 360/375 UV Polyurethane Elastomeric Traffic Bearing Waterproofing System. Prepare concrete substrate as per ICRI CSP 2-3. Durex® Uraflex Primer required for porous substrates. Treat all cracks as per ASTM C1127. Please refer to application instructions, specifications or consult with a Durabond Technical Representative. Prior to application of Durex® Uraflex 360NP, concrete must be fully cured (28 days) or as deemed acceptable by a Durabond Technical Representative. Surface must be dry prior to application. Patch work and miscellaneous repairs are to be corrected with Durex® Dur-A-Patch RS-45 or approved alternative. Plywood must be exterior grade at a minimum thickness of 1/2 in and must be properly secured and fastened prior to application. All plywood joints are to be pre-treated with approved polyurethane sealant and reinforced with Durex® Barrier Seam Tape. Prime plywood with Durex® Uraflex Primer.

Mixing Instructions

Mixing shall be carried out in a clean, rust-free container, and mixed by a power drill at 400-500 rpm maximum. Do not mix Part A and Part B together until ready for application, only mix materials to be used within working time window. Mix full kit provided of Part A resin with Part B urethane or as per mix ratio indicated. Mix Part A and Part B together slowly, using a low-speed drill for a minimum of 2 minutes, ensuring that both components are thoroughly mixed and there is a consistent colour without any residue remaining on the sides of the pail. Extra care must be taken to avoid introducing air into the mixture.

Application

Basecoat: Durex® Uraflex 360NP is to be applied at a thickness of 30 mils to form an effective waterproofing membrane. Apply with a notched squeegee. The use of a wet-mil film thickness gauge is required to verify applied material thickness. Typically, an overnight cure (12 hours) is sufficient time prior to application of the topcoat. Allow more time for dry and cool environment conditions. Warm, humid environments will cure more rapidly. Durex® Uraflex 375UV topcoat must be installed within 24 hours. Consult with a Durabond Technical Representative for special application areas and site adaptations.

Topcoat: Durex® Uraflex 375 UV is to be applied at a thickness of 15 wet mils using a notched squeegee. Immediately after application, 20-40 mesh silica sand anti-slip aggregate is to be broadcasted over the wet surface. Distribute the aggregate evenly over the surface at a rate approximately 10-15 lbs of aggregate per gallon (1.3 - 1.8 kg per litre) of Durex® Uraflex 375 UV. Back-roll the coating for a smooth, consistent finish while ensuring to encapsulate the aggregate.

***For heavy durty traffic areas*:** An intermediate coat of Durex® Uraflex 361 Elastomeric Polyurethane Traffic Bearing Topcoat must be applied. Allow this intermediate coat to cure for 8 hours prior to the application of Durex® Uraflex 375 UV. Application thickness shall 10-15 wet mils.

Durex® Uraflex 360/375 UV is to be applied seamlessly from the topside of the balcony to the vertical edges continuing to the drip edge underneath. Allow a minimum of 48 hours prior to pedestrian traffic and 72 hours prior to vehicular traffic (at 5-35°C). Extended drying times must be accounted for in dry and/or cool environmental conditions. Please contact a Durabond Technical Representative for further assistance and recommendation of curing accelerators.

Clean-up

Wash all tools and equipment immediately with mineral Xylene or solvent-based cleaner. Allow any unused product to harden in container and discard according to local regulations.

Limitations

Durex® Uraflex 360/375UV System shall not be installed under the following conditions:

- Concrete Slabs with a moisture content greater than 4% be weight
- High-compression (super-plasticized) concrete slabs & Unvented Steel Deck Slabs
- Application temperature is less than 3 degrees Celsius above dew point
- On-grade slabs and split concrete slabs with existing membrane coating
- Minimum ambient and substrate temperatures: Below 7 degrees Celsius for Durex Uraflex 360 NP.
- Do not thin with solvents

Health and Safety

Use rubber gloves when handling the product. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water and seek medical attention if irritation occurs. Harmful if swallowed. Do not induce vomiting. Drink 1-2 glasses of water or milk. Keep product out of reach of children. Read published Safety Data Sheet for additional information.

Warranty

Durabond warrants this product is free of manufacturing defects, and will replace at no charge, provided it has been applied within 12 months of purchase, it has been installed for uses suitable for this product and in accordance with the manufacturer's instructions.

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.