

Durex® Uraflex Traffic UV HD System

Heavy Duty, UV Resistant Polyurethane Elastomeric Traffic-Bearing Waterproofing System for Vehicular Parking Decks

Description	Durex® Uraflex Traffic UV HD System is a high-performance, heavy duty UV resistant parking and vehicular deck-protective coating system. It consists of an elastomeric membrane, Durex® Uraflex 360NP a highly abrasion-resistant intermediate coat, Durex® Uraflex 361, and a special, heavy duty, UV resistant Polyaspartic modified polyurethane topcoat Durex® Uraflex 375UV. Durex® Uraflex Traffic UV HD is engineered to waterproof and protect concrete slabs from harsh environmental conditions and salt contamination with added UV and durability. The system is formulated with a combination of highly elastomeric polyurethane technology, allowing the system to bridge post-application cracks and a durable, aggregate-laden topcoat to withstand heavy vehicular traffic.
Uses	Durex® Uraflex Traffic UV System is intended for use as a protective UV resistant waterproofing parking deck coating system for the protection of concrete slabs in parking structures, pedestrian walkways and plaza decks.
Ideal For	• Parking decks, ramps and drive aisles • Parking garages • Plaza and exposed decks • Terraces • Balconies (See Uraflex 360/375UV Balcony System)
Features	• Highly abrasion resistant and elastomeric • UV-resistant, highly durable Polyaspartic modified topcoat • Chemically resistant coating • Maintains elasticity at very low temperatures • Outstanding penetrating adhesion to concrete • Bridges cracks up to 1/16" (1.5mm) • Non-skid and decorative • Waterproof • Potential LEED Credits (Renewable Materials) • Odour and solvent Free; minimal disturbance to tenants • Easy to clean • ASTM C957 tested (pass) • Primer-free high adhesion membrane technology

TECHNICAL DATA

PHYSICAL PROPERTIES				
	URAFLEX 360NP MEMBRANE	URAFLEX 361 TOPCOAT	URAFLEX 375 UV TOP COAT	
Colour	Light Grey	Please see Durex® Colour Selection Guide for available colour options.	Please see Durex® Colour Selection Guide for available colour options.	
Resin Type	Polyurethane/Hybrid polyol	Polyurethane	Aliphatic Polyurethane	
Mix Ratio	Part B (Urethane): Part A (Resin) – mix full kit supplied	Part A (Resin): Part B (Urethane) Mix full kit supplied	Part A (Resin): Part B (Catalyst)	
Coverage	80 ft ² /gal @ 20 mils DFT	See Chart	106 ft ² /gal @ 15 mils DFT	
Cure Time @ 35-40°C	To touch: 6 hours To recoat: 8 hours Handling time: 25-35 minutes	To touch: 1 hour To recoat: 6-8 hours Vehicular traffic: 24 hours	To touch: 5 hours To recoat: 6-8 hours Vehicular traffic: 24 hours	
Pot Life @ 23°C	20 minutes	25 minutes	20 minutes	
Recommended Film Thickness	25 mils DFT	20-25 mils DFT	15-20 mils DFT	
Recycled Content	51%	60%	53%	
TEST	METHOD	URAFLEX 360 NPBASECOAT	URAFLEX 361 TOPCOAT #1	URAFLEX 375 UV TOPCOAT #2
Percent Solids	ASTM D7232-06	99%	100%	100%
V.O.C.	ASTM D3960	5 g/L	0 g/L	0 g/L
Specific Gravity	ASTM D333	1.19 ± 0.05 g/L	1.25 ± 0.05 g/L	1.25 ± 0.05 g/L
Viscosity (Brookfield, 23°C)	ASTM D2196	3,300 cps	1,500 cps	1500 cps
Abrasion Resistance	ASTM 5178-91 CS-17 wheel		24 mg loss, 1000 g load, 1000 cycles	11 mg loss, 1000 g load, 1000 cycles
Tensile Strength	ASTM D412	2,500 psi	3,000 psi	2,075 psi
Tear Strength	ASTM D624			171 lb/lin.inch
Adhesion (pull-off)	ASTM D4541	400 psi (failure at concrete)		
Elongation	ASTM D412	900%	60%	200%
Flexural Modulus	ASTM D522	2 mm film passes 12 mm mandrel		2 mm film passes 12mm mandrel
Adhesion in Peel	ASTM C957	Pass		

Crack Bridging	ASTM C957	Pass		
Low Temperature Flexibility	1/8" mandrel @ -26°C ASTM C957	Pass		Pass
Water Absorption	ASTM D570	0.25%	< 0.5%	< 0.5%
Water Vapour Transmission	ASTM E96-Procedure B	0.05 g/hr-pi ² 0.029 g/hr-m ²	0.29 metric perms	0.29 metric perms
Water Vapour Permeability	ASTM E 96	0.20 perm in. 0.0025 ng/Pa·s·m ²		
Water Vapour Permeance	ASTM E 96	4.70 x 10 ⁻⁵ perm 0.028 ng/Pa·s·m ²		
Shore Hardness	ASTM D 2240	67 (Shore A)	95/70 (Shore A/D)	95
Chemical Resistance	ASTM D 412	Pass	Pass	
	ASTM D543			30% NaOH = 0.40% 10% H ₂ SO ₄ = 0.45% 30% NaCl = 0.20% Diesel Fuel = 5.0%

Packaging Durex® Uraflex Traffic UV System is packaged in bulk kits, 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 Traffic UV System in a dry, vented, waterproof location, stacked off the ground, out of direct sunlight and other detrimental conditions. **KEEP FROM FREEZING.**

Surface Preparation Surfaces to be coated must be free of dirt, oils, and any other contaminants that may prevent proper adhesion. Contact Durabond Technical Services for surface preparation methods of surfaces contaminated by oil or other materials.

Concrete: New concrete shall be allowed to cure for a minimum of 28 days and to achieve a compressive strength of concrete of at least 25 MPa (3,625 psi) before coating. Durex® Epotol Moisture Block 100 can be used as a moisture-mitigating primer for application on new slabs after 14 days or concrete between 4-6% moisture by weight. Consult your Durabond Technical Representative for further information. Prepare surfaces by shot-blasting to achieve a profile consistent with ICRI CSP 3-4. Refer to ASTM C1127 for crack treatment. Treat static cracks up to 1/16 inch with Durex® Uraflex 360 Elastomeric Polyurethane Waterproofing Membrane. Rout and seal all dynamic/moving cracks and static cracks greater than 1/16 inch with a polyurethane sealant and reinforce where applicable. Correct concrete repairs with Durex® Duracrete Trowel or Durex® Dur-A-Patch RS-45.

Mixing Instructions Mixing shall be carried out in a clean, rust-free container, and mixed by a power drill at 400-500 rpm maximum. See the respective product data sheets for specific mixing instructions. Mix full kit supplied.

Application

System Description	Coating System Components			
	Membrane	Intermediate Coat #1	Intermediate Coat #2	UV Top Coat
Heavy Vehicular Use	Uraflex 360NP	Uraflex 361 (aggregates 25 Lbs/100 SF – Broadcast and backroll)	Uraflex 361 (aggregates 25 Lbs/100 SF – Broadcast and backroll)	Uraflex 375 UV (Aggregates: 5 - 10 Lbs/100 SF)
<i>System Thickness: 80 Mils</i>	<i>DFT:25 mils</i>	<i>DFT:20 mils</i>	<i>DFT:20mils</i>	<i>DFT:15mils</i>
Extra Heavy Vehicular Use	Uraflex 360NP	Uraflex 361 (aggregates 35-50 Lbs/100 SF – Full Broadcast)	Uraflex 361 (aggregates 35-50 Lbs/100 SF – Full Broadcast)	Uraflex 375 UV (Aggregates: 5 - 10 Lbs/100 SF)
<i>System Thickness: 95 Mils</i>	<i>DFT:25 mils</i>	<i>DFT: 25 mils</i>	<i>DFT: 25 mils</i>	<i>DFT: 20 mils</i>

Optional Primer: Durex® Uraflex Primer. Applied at 8 mils DFT. For extremely porous surfaces

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TRAFFIC-BEARING WATERPROOFING MEMBRANE - Durex® Uraflex 360NP: Durex® Uraflex 360 NP Waterproofing Membrane is to be applied at a thickness of 25 wet 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 (8 hours) is sufficient time prior to application of the topcoat. Allow more time for dry and cool environmental conditions. Warm, humid environments will cure more rapidly. Ensure that the product is slightly tacky to the touch prior to installation of the topcoat. Consult with a Durabond Technical Representative for special application areas and site adaptations.

TRAFFIC-BEARING WATERPROOFING INTERMEDIATE LAYER (2 COATS) - Durex® Uraflex 361: Durex® Uraflex 361 Traffic-Bearing Topcoat is to be applied at varying thicknesses depending on Heavy Duty or Extra Heavy Duty system. Apply materials using a notched squeegee.

Heavy Duty Version: Apply one coat at 20 mils broadcasting aggregate (16-30 mesh) at 25lbs per 100 sq.ft. Immediately after application, the non-slip aggregate is to be broadcasted over the wet surface, distributing the aggregate evenly. Back-roll the coating for a smooth, consistent finish while ensuring to encapsulate the aggregate. Rounded silica sand and aluminum oxide of 20-30 mesh are recommended as non-slip aggregates.

REPEAT PROCESS ABOVE

Extra-Heavy Duty Version: Apply one coat at 25 mils broadcasting aggregate to refusal (16-30 mesh) at 30-50 lbs per 100 sq.ft. Immediately after application, the non-slip aggregate is to be broadcasted over the wet surface, distributing the aggregate evenly to refusal. Rounded silica sand and aluminum oxide of 20-30 mesh are recommended as non-slip aggregates. Remove excess sand when dry.

REPEAT PROCESS ABOVE

TRAFFIC-BEARING WATERPROOFING TOPCOAT - Durex® Uraflex 375 UV: Apply Durex® Uraflex 375 UV Non-Yellowing Elastomeric Polyurethane Traffic-Bearing Topcoat at a uniform thickness of 20 mils DFT using a notched squeegee over Durex® Uraflex 361 Elastomeric Polyurethane Traffic-Bearing Intermediate layer. Use wet film thickness gauge to measure and monitor material thickness.

OPTIONAL PRIMER: Durex® Uraflex Primer is an optional primer installed as part of the Durex® Uraflex Traffic UV System. It is formulated to increase adhesion to substrates when necessary for certain conditions and for substrates which may result in out-gassing. Durex® Uraflex Primer is applied at a thickness of 5 mils DFT. Consult a Durabond Representative for further information and recommendations.

All walls and curbs must be sealed with a highly flexible, polyurethane caulking. Upturn membrane and topcoat 100mm (4"). See specification for further instructions.

Allow a minimum of 24 hours prior to traffic (at 23-35°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. Do not apply on concrete that is outgassing. Consult Durabond for application on steep slopes (greater than 12%).

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.

Clean-up Limitations

Durex® Uraflex Traffic UV System shall not be installed under the following conditions:

- Concrete Slabs with a moisture content greater than 4% by 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 4 degrees Celsius for Durex Uraflex 360 NP.
- Use Durex® Uraflex 375UV for all exposed decks and areas subject to UV rays and direct sunlight

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Health and Safety

Use with proper protective equipment when using/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. Keep product out of reach of children. Read published Material Safety Data Sheet prior to handling and use.

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.

LIMITATIONS

Correct installation of the system remains the responsibility of the applicator. Site visits by **Durabond** are intended solely to provide technical guidance and product-related recommendations, and do not constitute site supervision, inspection, or quality control services.

- Where vapor transmission is present or suspected, consult **Durabond Technical Services** before proceeding with application.
- Minimum substrate and ambient application temperature is **4°C**. For applications in temperatures exceeding **30°C**, contact **Durabond Technical Support** for project-specific recommendations.
- Do not install the system over **on-grade concrete slabs, split slabs incorporating an intermediate waterproofing membrane, unvented metal pan decks, or plywood deck assemblies**.
- Application is not recommended on concrete decks exhibiting deflection greater than **L/480**.
- To achieve the specified wet film thickness, the use of a **grid application method** is recommended. Divide the surface into measured sections, calculate the area of each section, and refer to the coverage chart to determine the required material quantity for each area to ensure proper mil thickness.
- Avoid application when adverse weather conditions are present or expected during installation and curing.
- Do not apply over substrates that are **damp, wet, contaminated, or otherwise unsuitable for adhesion**.

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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