

# Durex® Uraflex Mechanical Room Waterproofing System

## Mechanical Room Waterproofing System

- Description** Durex® Uraflex Mechanical Room Waterproofing System is a high-performance waterproofing system for mechanical rooms. The system consists of an elastomeric membrane base coat, Durex® Uraflex 360 Elastomeric Polyurethane Waterproofing Membrane, and an easy-to-use protective topcoat, Durex® Epoxy Guard Pro Professional Use Quick-Drying Water-Based Epoxy Coating.
- Uses** Durex® Uraflex 360 Elastomeric Polyurethane Waterproofing Membrane is a two-component, 100% solids, VOC-free polyurethane membrane formulated to bond to a variety of substrates including concrete, wood and metal. Durex® Epoxy Guard Pro is a two-component, very low VOC, water-based epoxy that is easy to use and cures to form a protective, easy-to-clean surface. These two products work together to formulate the Durex® Uraflex Mechanical Room Waterproofing System that is intended for use as a protective mechanical room waterproofing system.
- Ideal For**
- Mechanical room areas
- Features**
- Abrasion resistant and elastomeric
  - Waterproof
  - Sound deadening
  - Potential LEED Credits
  - Very low odour, solvent free and minimal disturbance to tenants
  - Durable and long lasting and easy to clean
  - Protects from hairline cracks

### TECHNICAL DATA

PHYSICAL PROPERTIES	URAFLEX 360 BASECOAT	EPOXY GUARD PRO TOPCOAT
Colour	Beige	Please see <i>Durex® Colour Selection Guide</i> for available colour options.
Resin Type	Polyurethane/Hybrid polyol	Water-based epoxy
Mix Ratio	Part A (Resin):Part B (Urethane) 2.5:1 by volume	Part A (Resin):Part B (Urethane) 2:1 by volume
Coverage	1.2 m <sup>2</sup> /L (50 ft <sup>2</sup> /gal) @ 30 mils	7 m <sup>2</sup> /L (400 ft <sup>2</sup> /gal) @ 2 mils/coat; 2 coats
Cure Time @ 35-40°C	To touch: 6 hours To recoat: 8 hours Handling time: 25-35 minutes	To touch: 2 hours To recoat: 3 hours Light traffic: 6 hours Fully cured: 7 days
Pot Life @ 23°C	20 minutes	3 hours
Recommended Film Thickness	20 mils DFT	2 mils DFT
pH Level		7-8

TEST	METHOD	URAFLEX 360 BASECOAT	EPOXY GUARD PRO TOPCOAT
Percent Solids	ASTM D7232-06	100%	50 ± 2% (vol.) clear
V.O.C.	ASTM D3960	0 g/L	< 30 g/L
Specific Gravity	ASTM D333	1.20 ± 0.05 g/L	1.07 ± 0.01 g/L 8.90 ± 0.1 lb/gal
Viscosity (Brookfield 23°C)	ASTM D2196		2,500 cps
Abrasion Resistance	ASTM 5178-91 CS-17 Wheel	75 mg loss, 1000 g load, 1000 cycles	100 mg loss, 1000 g load, 1000 cycles
Tensile Strength	ASTM D412	1,350 psi	
Tear Strength	ASTM D624		
Elongation	ASTM D412	900%	
Flexural Modulus	ASTM D522	2 mm film passes 12 mm mandrel	
Low Temperature Flexibility	1/8 in. mandrel @ -26°C		
Water Absorption	ASTM D570	< 0.5%	
Water Vapour Transmission	ASTM E96- Procedure B	0.05 g/hr·pi <sup>2</sup> 0.029 g/hr·m <sup>2</sup>	
Water Vapour Permeability	ASTM E96	0.20 perm in. 0.0025 ng/Pa·s·m <sup>2</sup>	
Water Vapour Permeance	ASTM E96	4.70 x 10 <sup>-5</sup> perm 0.028 ng/Pa·s·m <sup>2</sup>	
Shore D Hardness	ASTM D2240	71	

<b>Packaging</b>	Durex® Uraflex Mechanical Room Waterproofing System is packaged in 18.9 L (5 gal) and 3.78 L (1 gal) kits, as well as bulk kits. This product is available in multiple standard colours. Custom colour matching can also be attained at an additional cost. Please refer to the <i>Durex® Colour Selection Guide</i> for all available colour options.
<b>Storage Conditions</b>	Store Durex® Uraflex Mechanical Room Waterproofing System in a dry, vented, waterproof location, stacked off the ground, out of direct sunlight and other detrimental conditions. <b>KEEP FROM FREEZING.</b>
<b>Surface Preparation</b>	All surfaces such as concrete, wood and metal to be coated must be free of dirt, oils, and any other contaminants that may prevent proper adhesion of Durex® Uraflex Mechanical Room Waterproofing System. Pre-treat cracks up to 1/16 in. with Durex® Uraflex 360 Waterproofing Membrane or with an approved polyurethane sealant. For larger cracks, please refer to application instructions, specifications or consult with a Durabond Technical Representative. Prior to application of Durex® Uraflex 360 Waterproofing Membrane, 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 100 or approved alternative. Durex® Reinforcing Fibreglass Mesh is to be used over high movement areas. 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 Durex® Uraflex 360 Waterproofing Membrane and reinforced with Durex® Barrier Seam Tape. Caulking of seams with a polyurethane sealant is strongly recommended.
<b>Application</b>	<p><b>WATERPROOFING MEMBRANE:</b> Durex® Uraflex 360 Waterproofing Membrane is to be applied at a thickness of 30 wet mils to form an effective waterproofing membrane. Apply with a 13 mm lint-free roller or 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 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.</p> <p><b>TOPCOAT:</b> Durex® Epoxy Guard Pro Professional Use Quick-Drying Water-Based Epoxy Coating is to be applied twice at a thickness of 3-5 wet mils per coat using a 13 mm phenolic core roller for a total film thickness of 6-8 mils. Non-slip aggregate may be applied. It is to be broadcasted over the wet surface evenly at a rate of approximately 5 lbs of aggregate per gallon (0.5 kg per litre) of Durex® Epoxy Guard Pro Professional Use Quick-Drying Water-Based Epoxy Coating. Back-roll the coating for a smooth, consistent finish while ensuring to encapsulate the aggregate. <b>Note:</b> Silica sand #32 is recommended as a non-slip aggregate.</p> <p>Allow a minimum of 48 hours prior to light foot traffic (5-35°C). Extended drying times must be accounted for in dry and/or cool environmental conditions. Please contact Durabond Technical Services for further assistance and recommendations of curing accelerators.</p>
<b>Clean-Up</b>	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.
<b>Health and Safety</b>	Take suitable fire precautions. Use under well-ventilated conditions with appropriate respirator approved for organic vapours and 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 Material Safety Data Sheet for additional information.
<b>Warranty</b>	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.
<b>Technical Services</b>	Technical support is available upon request at <a href="mailto:info@durabond.com">info@durabond.com</a> . For the latest version of this data sheet, please visit our website at <a href="http://www.durabond.com">www.durabond.com</a> , call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Technical Coatings Ltd sales representative.

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