

# LDC 60

## FLUID APPLIED WATERPROOFING MEMBRANE

### DESCRIPTION

LDC 60 is a single component, moisture cure modified polyurethane waterproofing membrane. LDC 60 cures to form a seamless, elastomeric waterproof membrane that is positively bonded to the substrate. The inherent toughness and elasticity of LDC 60 enables it to bridge small structural or shrinkage cracks which may develop in the substrate. Its tenacious bond to concrete substrates prevents lateral water migration.

LDC 60 is typically applied by roller, or squeegee. Its fluid application allows it to be easily installed at difficult areas, such as around multiple pipe penetrations and over irregular substrates.

### PRODUCT GRADE TYPES

- LDC 60H – Horizontal Grade (self-leveling)
- LDC 60V – Vertical Grade (roller applied)

### APPLICATIONS

LDC 60 is designed for below-grade vertical and horizontal surfaces, as well as, subsurface applications above grade. Typical application is between the structural slab and wearing course on parking garages, plaza decks, balconies, roof decks, terraces, mechanical rooms, and fountains. Other applications include concrete foundation walls, masonry block foundation walls, planters, tunnels, and earth-covered structures.

**Limitations:** LDC 60 should not be used as an exposed or wearing surface. Do not apply to damp or contaminated surfaces. Metal deck pan forming should be vented. Substrate surface temperature should be above 4.4°C (40°F). Use only with adequate ventilation.

### PACKAGING

Both LDC 60V and LDC 60H are available in 18.9 liter (5-gallon) pails; 36 pails per pallet. Pail weight is 27.2 Kg (60 lbs.).

### INSTALLATION

**Surface Preparation:** New concrete should be water cured, troweled, followed by a light, hair broom finish and in place for 14 days minimum, 28 days preferred. If curing compounds are required, use a type that selfdissipates within several days. Surfaces shall be structurally sound, dry, and free of oil, grease, dirt, laitance, curing and release agents, and other contamination which may affect the adhesion of the membrane. Mortar joints on masonry block walls should be struck flush with the block surface.

Remove concrete fins, ridges or other projections to provide a smooth surface. As required, grind or fill surface at cold joints where each pour is at a different plane. Fill tie-rod holes, honeycombs, rock pockets, spalls or other voids and indentations with non-shrink grout. Clean metal to expose a bright surface.

**Detail Work:** As required, grind or saw cut substrate cracks greater than 1.8 mm (1/16") in width to 6 mm (1/4") wide by 6 mm (1/4") deep. Clean joint and apply wax or bondbreaker tape at base of saw cut cracks and fill with sealant. Apply a 100 mm (4") wide, 1.5 mm (0.060") thick stripe coat of LDC 60 membrane over all saw cut cracks, concrete cold joints, and hairline cracks.

Apply a 18 mm (3/4"), 45 degree angle sealant cant at the juncture of all horizontal and vertical surfaces, including at pipes, vents and other projections. Extend membrane stripe coat over cants and up the vertical wall minimum 150 mm (6") or as shown on drawings.

**Membrane Application:** Apply LDC 60 at 2.3 sq m per 3.7 liters (25 sq. ft. per gallon) or as required to obtain 1.5 mm (0.060") thickness, to the entire area to receive waterproofing, including over all detail coats.

On horizontal deck surfaces, the preferred method of LDC 60 H application is with a notched squeegee. On vertical surfaces, the preferred method of LDC 60V application is with a chemical resistant, heavy nap roller. Vertical applications typically require two passes to achieve the proper material thickness.

**Protection:** LDC 60 must be protected from damage after installation. Applicable CETCO protection material should be used per job-site conditions. Install protection course on vertical surfaces immediately after membrane has cured (36 hours at 23.8°C (75°F)). Install protection course on horizontal surfaces immediately following successful flood testing (if required). If flood test is delayed, install a temporary covering to protect the membrane from damage.

**Flood Test:** After membrane has cured a minimum 36 hours, plug drains and provide necessary barriers to contain flood water. Flood deck with a 25 mm (1") depth of water and allow to stand for 24 hours. Check for leaks and immediately make repairs if required. Retest after any repairs have been made.

**Clean Up:** Before LDC 60 cures, stains or spills to adjacent areas can be cleaned with xylene. **CAUTION:** Do not wash skin with solvents. Xylene is a flammable solvent. Observe solvent manufacturer's instructions and precautions.

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TECHNICAL DATA			
PROPERTY	TEST METHOD	LDC 60H TYPICAL VALUE	LDC 60V TYPICAL VALUE
Color		Black	Black
Tack Free / Cure Time		16 Hours / 36 Hours	16 Hours / 36 Hours
Solids Content	ASTM C836	85%	90%
Tensile Strength	ASTM D412	250 psi	300 psi
Elongation	ASTM D412	650%	650%
Adhesion to Concrete	ASTM C794	20 pli	20 pli
Shore "A" Hardness	ASTM D2240	20	25
Shore "00" Hardness	ASTM C836	58-64	62-64
Water Vapor Permeance	ASTM E96 (B)	0.09 perms	0.09 perms
Tear Resistance	ASTM D624	55 pli	80 pli
Modulus at 100%	ASTM D412	60 psi	60 psi
Water Absorption	ASTM D471	0.4%	0.7%

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