



PRODUCT PROFILE

CEL 600 is a flexible, two component, 100% solids elastomeric polyurethane that can be applied without a primer over concrete & steel.

SUPERIOR Gas-Proofing Ability
MODERATE Chemical Resistance
FAST Set-up & Turn Around Time

CEL 600 is an elastomeric coating especially formulated for the protection and sealing of concrete and metal surfaces. Although tough and chemical resistant, it offers outstanding flexibility and maintains its integrity while bridging normal cracks which may develop in the substrate below. Intercoat adhesion failures are eliminated since a primer is not required. **CEL 600** contains no organic volatiles and is odorless during and after application. It creates a dense membrane and does not promote the formation of pinholes. **CEL 600** has a low coefficient of friction and is therefore an ideal release coating for form work or low-maintenance cleaning.

TYPICAL APPLICATIONS:

- Concrete and Steel Tanks
- Secondary Containment
- Form Release Work
- Manhole Restoration
- General Maintenance

TECHNICAL DATA

PHYSICAL PROPERTIES:

Specific Gravity	1.2
Flash Point	>121°C
Volatile Organic Compounds (VOC)	0 grams/litre
Colour	Gray
Recommended Coverage	60 mils concrete, 30 mils steel
Container Size	20L pails, 200L drum
Adhesion	Concrete: 300-600 psi(21-42 kg/cm ²) to break Steel: 2500 psi (175kg/cm ²)
Elongation	> 35%
Hardness	Shore "D" 60
Impact Resistance	160 + inch pounds (15 Joules)

CEL 600 TECHNICAL DATA

Pot Life	3 minutes at 20°C 1 minutes at 65°C
Tack Free Time	30 minutes at 20°C
Full Cure	2 days at 20°C
Relative Humidity Tolerance	0 - 95%
Theoretical Coverage	1 sq. m / litre at 1 mm thickness
Cleaning Solvent	CEL 100 or CEL 150

SURFACE PREPARATION:

Metal surfaces are recommended to be cleaned to an SSPC-SP10 standard using an abrasive sandblast to remove rust, scale, marine growth, grease, dirt, debris and other contaminants. The anchor profile for surface preparation must be a minimum of 2 mils (50 microns).

Concrete surfaces can be prepared using high pressure water blast, sandblasting, shotblasting, or a combination of acid etching and high pressure (3000 psi, 205 BAR minimum) water blasting. If acid etching or detergent have been used with a water blast, the concrete should be rinsed thoroughly before proceeding with repair work. Any loose or damaged concrete must be repaired. Five Star Structural Concrete (or equivalent) is a suitable repair material. Once the repairs have been completed, remove existing coating and/or deteriorated concrete by abrasive sandblast. Sandblasting will produce a rough surface with a texture similar to coarse sandpaper.

APPLICATION PROCEDURES:

- 1) Store all materials in accordance with the manufacturers written recommendations. All materials shall be thoroughly mixed prior to application. Failure to do so may diminish the quality of the coating.
- 2) For concrete, after any parge material has cured and an anchor pattern has been established, **CEL 600** may be applied.
- 3) Preheating **CEL 600** to 65°C is recommended. Apply the coating to the film build specified by the project engineer. The full coating thickness shall be applied in one coat which should be comprised of multiple passes sprayed during a period not exceeding 30 minutes. Stripe all edges, rough surfaces and hard to reach areas initially.

CEL 600 APPLICATION PROCEDURES (CONT'D)

APPLICATION EQUIPMENT:

CEL 600 is best applied by plural component spray process (ratio = 3:1) but may also be applied by short nap roller, brush, squeegee or urethane paint pad. If mixing by hand, it is important to remember that the pot life will vary depending on the quantity of product mixed and the temperature of the product. At 20° C, a pot life of approximately 3 minutes can be expected.

CURE & RECOAT TIME*:

AMBIENT TEMPERATURE	TACK FREE TIME	THOROUGH CURE
32° C	10 minutes	24 hours
20° C	30 minutes	48 hours

* The above are guidelines only as the interaction between ambient and substrate temperatures will cause fluctuations in cure time. If the coated surface exhibits tackiness, then it may be recoated. Otherwise, it should be brush blasted first to create an anchor profile.

SUBSTRATE TEMPERATURE:

Minimum recommended: 5 °C Maximum recommended: 60° C

Note: The substrate must remain at least 3° C above the dewpoint and free from moisture during all coating procedures. For steel substrates, the substrate temperature must remain at least 3° C above dewpoint during all surface preparation procedures as well in order to prevent flash rusting.

ORDERING INFORMATION

For additional information, prices or to place an order, please contact your **ICAT** sales representative or call our offices direct.

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