

Sauereisen ConoFlex Urethane 381.61 is an aromatic polyurethane lining that provides excellent flexibility and impact resistance for concrete, steel, and other substrates. 381.61 is a chemically resistant, lining combining toughness, elongation, and low permeability with a fast cure time.

Typical uses: flexible lining for various applications, including primary/secondary containment structures subject to movement and for applications including tank coatings and linings, and food processing areas (FDA & USDA compliant).

CERTIFICATION

NSF Certified for Potable Water ANSI/NSF Standard 61

See current NSF Listing for restrictions.

CHARACTERISTICS

- Chemically resistant withstands a wide range of acids and bases
- Highly impermeable eliminates corrosion of substrates
- Flexible moves with substrate Impact and abrasion resistant 100% Solids
- High-build characteristics
 Color: Dark Gray 53
- USDA BioPreferred based on high content of renewal materials

AREA PREPARATION

Temperature of Working Area

Maintain a temperature of 50°F - 90°F on air, substrate, liquid and hardener components during mixing, application, and curing for optimum results. Ambient temperature must be at least 5°F above dew point.

ConoFlex Urethane 381.61 should be used in conjunction with ConoPrime 502.

PHYSICAL PROPERTIES

Abrasion Resistance (ASTM D4060,CS-17)-(1,000 gms/1,000 cycles) 45 m		es) 45 mg
Adhesion to Concrete (ASTM D4541)		300psi minimum
Adhesion to Steel (ASTM D4541)		2,940 psi
Elongation at Break (ASTM D412)		41%
Flexibility (ASTM D 1737)	30 mils: 180° over 0.125 in. Mandrel	
Hardness Shore D (ASTM D2240-86)	68 +/- 3	
Mixing Ratio	3:1 - Resin to Activator	
Moisture Vapor Transmission (ASTM F1249-06)	35-40 mils: 0.012g/100 in ²	
Percent Solids		100%
Pot Life		12-15 minutes
Service Temperature	Dry:	
	Continuous:	-40 ⁰ F to 200 ⁰ F
	Maximum Surge	350 ⁰ F
	Immersion:	Insulated: 150 ⁰ F
	1	Non-Insulated: 120 ⁰ F
Tensile Strength (ASTM D412)		2,775 psi
Volatile Organic Compounds (VOCs)		0.0 g/L

CONOFLEX URETHANE 381.61

Physical properties were determined on specimens prepared under laboratory conditions using applicable ASTM procedures. Actual field conditions may vary and yield different results; there fore, data is subject to reasonable deviation.

Applications in direct sunlight and rising surface temperatures may result in blistering of the material due to expansion of entrapped air or moisture in the substrate. Concrete that has been in direct sunlight must be shaded for 48 hours prior to application and remain shaded until after the initial set. When the surface temperatures are rising, it may become necessary to postpone the application and to apply the materials when temperature of the substrates are

Surface Preparation

All surfaces must be made free of oils, grease, water, and other contaminants that may inhibit the bond.

Metal: Abrasive blast to a minimum 3 mil profile employing a near white metal SSPC-SP10 finish, accordance with NACE 2 specifications. All welds must be continuous, free of flux, and have a smooth rounded radius without any sharp edges or protrusions.

Prepare concrete surfaces in accordance with SSPC-SP13/NACE 6 "surface preparation of concrete" for detailed *New Concrete* - All structures must have the necessary strength to withstand imposed loads during normal use and operation. After ConoPrime 502 is applied, the surfaces should be floated with Sauereisen RestoKrete® Filler Compound 209 or RestoKrete® Epoxy Modified cement 208 to fill all voids and depressions.

Substrates must be free of oil, grease, and other contaminants that may inhibit bond. This can be achieved by chemical cleaning. Abrasive blast, or high-pressure water blast to remove laitance and to obtain a uniform surface texture exposing fine aggregate resembling coarse sandpaper.

Old Concrete - Concrete must be dry, firm and must have the necessary strength to withstand imposed loads during normal use and operation. Surfaces must be free of oil, grease, and other contaminants that may inhibit bond. This can be achieved by chemical cleaning. Mechanical methods should be utilized to remove laitance, old paints, protective coatings, and attacked or deteriorated concrete. For concrete substrates, abrasive blast or high-pressure water blast to obtain a clean, uniform, and sound substrate. All structural cracks should be repaired. All slopes should be reestablished.

For irregular surfaces with voids exceeding 1/4 inch, Sauereisen RestoKrete® Filler Compound 209 or RestoKrete® Epoxy Modified Cement 208 may be used as an underlayment for ConoFlex 381.61.

Prior to application of ConoFlex 381.61, inspect the primed surface for voids, bubbles, and other defects that may result in blistering or pinholes. Repair as necessary to ensure a sealed surface.

Other Surfaces: Conoflex 381.61 may be used as a coating or lining over other substrates. Please contact Sauereisen for technical assistance.

EXPANSION & CONTROL JOINTS

Contact Sauereisen for technical assistance.

APPLICATION

Mixing / Installation

Premix No. 381.61 Part B Resin component to assure even dispersion of pigment.

For applications by plural component spray equipment:

Apply ConoFlex Urethane 381.61 with a Plural Component GracoTM XP70 or similar, that is capable of a 3:1 ratio, recirculation capabilities and a pump that can heat material and maintain that heat. Use GracoTM R-A-C IV spray tips in sizes from 0.021 to 0.043.

ConoFlex Urethane 381.61 can also be applied by roller, trowel, or squeegee. Consult Sauereisen for specific details.

It is very important to use a NIOSH-23C approved respirator when spraying ConoFlex Urethane 381.61. Please consult 381.61 MSDS for proper personal protective equipment.

COVERAGE

Theoretical coverage is 26.7 ft2 per gallon at 60 mils.

CLEAN-UP

All equipment should be cleaned with MEK before material cures. If removal is required after cure, consult Sauereisen.

SETTING/CURING

If Sauereisen ConoPrime 502 is used, please refer to the ConoPrime 502 data sheet for curing and top coat instructions.

ConoFlex Urethane 381.61 must be allowed to cure a minimum of 1 hour.

1-hourDry to touch1-24 hoursRecoat window time24 hourFull Cure

PACKAGING

ConoFlex Urethane 381.61 is packaged in 200-gallon (bulk) units, 20-gallon (Large) units, and 1-gallon patch-kits.

Ratio:

3-part B-Resin :1-part A- Activator

Bulk Units - 200 Gallon

Part B - Resin: 3-55 Gallon Drums with 50 gallons of Resin per drum. Part A - Activator: 1-55 Gallon Drum with 50 gallon of Activator

Large Units - 20 Gallon Units

Part B-Resin: 15 gallons packaged in 3 - 5 gallon plastic pails Part A- Activator: 1 - 5 gallon plastic pail (filled)

*Containers are filled by weight, not volume. Container size does not indicate volume of contents.

Patch-kits are available upon request.

SHELF LIFE

Sauereisen ConoFlex Urethane No. 381.61 Resin and Activator have a shelf life up to one (1) year when stored in tightly sealed containers in a dry location at

<u>Do not freeze.</u> If there is a doubt as to the quality of the materials, consult a Sauereisen Representative.

CAUTION

Consult Material Safety Data Sheets and container label Caution Statements for hazards in handling these materials.

WARRANTY

We warrant that our goods will conform to the description contained in the order, and that we have good title to all goods sold. WE GIVE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE OR OTHER-WISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSLY SET FORTH HEREIN. We are glad to offer suggestions or to refer you to customers using Sauereisen Cements and Compounds for a similar application. Users shall deter- mine the suitability of the product for intended application before using, and users assume all risk and liability whatso- ever in connection therewith regardless of any suggestions as to application or construction. In no event shall we be liable hereunder or otherwise for incidental or consequential damages. Our liability and your exclusive remedy hereunder or otherwise, in law or in equity, shall be expressly limited to our replacement of non-conforming goods at our factory or, at our sole option, to repayment of the purchase price of non-

LEGAL NOTICE

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