

DESCRIPTION

TOPCOAT CRX is a high performance urethane elastomeric coating, specifically designed for environments that require resistance to high acid and alkali conditions

When fully cured, TOPCOAT CRX forms an extremely tough, abrasive resistant rubber coating, especially well suited for applications requiring protection from impact, abrasion, or corrosion on metal, wood or concrete surfaces.

TOPCOAT CRX surfaces provide an excellent non-slip surface in both wet and dry environment.

USES

Resistance to chlorine and acids
Abrasion resistance
Waterproofing
Non-slip surfaces

FEATURES

Easy application: using a pressure pot and Binks 2001 spray gun. TOPCOAT CRX does not require a humidity controlled environment for application.

U.V. stable - can be applied in almost any color (except white).

Convenient pre-measured one gallon kits.

PHYSICAL PROPERTIES

Tensile strength	ASTM D-412, Die-C	2578 psi
Tear strength	ASTM D-624, Die-C	595 (lbs/in.)
Elongation	ASTM D-412, Die-C	430 %
Hardness,	ASTM D-2240-85	75-85 Shore A
% Solids by volume		65.25%
% Solids by weight		66.68%

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ABRASION RESISTANCE

TOPCOAT CRX has excellent abrasion resistance
Abrasion Resistance ASTM D 3389-94 4.4 mg
(Taber Model 502 /C-17 Wheel with CRX gram load) Abrasion loss
per 1000 revolutions

HIGH OR LOW TEMPERATURE PROPERTIES

TOPCOAT CRX has been successful at temperatures up to 180 F
Under wet or humid conditions at elevated temperatures TOPCOAT
CRX is superior to most other urethanes. TOPCOAT CRX
it still remains flexible at temperatures as low as -27 F ASTM D 746.

CHEMICAL RESISTANCE

TOPCOAT CRX has excellent chemical resistance .
Resistance to most water Acid and Alkali at room temperature is excellent,
but resistance to organic solvents is generally poor. The table below gives
an indication of resistance to some chemicals; however, users should
conduct their own tests.

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Sea WaterE

Alkalis Chlorinated pool water E
Sodium Hypochlorite 10% (Clorox @ 100%) . E
Sodium Hydroxide (caustic soda), 25% E
Ammonia hydroxideE

Acids Nitric Acid, 30% F
Hydrochloric Acid (muriatic acid), 35%.....F
Sulfuric Acid (battery acid) 33.5%..... E
(HF) Hydrofluoric acid 48% F

Solvents Methyl Ethyl KetoneP
Toluene..P
KeroseneP
GasolineP
Diesel.....P

G - Good E - Excellent F - Fair P - Poor

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CURE TIMES.

The time required for TOPCOAT CRX to cure is dependent upon temperature. A 75% cure is generally sufficient for mild abrasion and ... immersion.

The cure times shown below are for a 100 mil thick coating; cure times should be increased by 50% for a 250 mil thick coating.

	<u>50 F</u>	<u>75 F</u>	<u>120 F</u>
75% Cure	6 days	3 days	1 day
95% Cure	15 days	7 days	3 days

Recoating

Topcoat CRX can be recoated with additional Topcoat CRX up to 48 hours after the initial application. After 48 hours the surface should be abraded ... and primer with Primer 460 to insure full adhesion.

Application

SURFACE PREPARATION: TOPCOAT CRX should only be applied to surfaces that have been properly prepared and primed with Primer 460. Most common materials, such as steel, aluminum, fiber-glass, rubber, urethane, brick, concrete and wood can be coated with TOPCOAT CRX. To obtain maximum adhesion most substrates must be abraded, grit-blasted, or etched before applying Primer 460 and Topcoat CRX. New metal surfaces should be grit-blasted to SSPC-SP-10

“Near White Metal Blast” and should exhibit a 2 to 4 mil surface profile. Metallic substrates must always be dry and primed with Prime 460 before applying TOPCOAT CRX.

Coverage rate per gallon at 100 sq ft.: 10.10 dry mils per sq ft.

Mixing

Topcoat CRX is supplied in premeasured one gallon kits. The component A is packed in a one gallon can and the component B in a one quart can. Add a complete tube of the SL pigment into the Component B and mix thoroughly. Pour the Component B / SL-pigment mixture into the component A and mix for one minute with a electric drill and “Jiffy” mixer”

Mix on a medium speed where the liquid mixture is making a slight “cone” Do not “whip” in excess air in to the mixture. Place the mixer close to the bottom of the mixing can to ensure that all of the component A and component B are combined. Improper mixing can cause uncured “sticky” spots in the cured coating.

Topcoat CRX may also be mixed at 3 Parts Component A to 1 Part Component B by weight or Volume. Do not use more than 6% of the SL-Pigment to the mixed volume of Component A and Component B

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**STORAGE
AND SHELF LIFE**

TOPCOAT CRX components are shipped from the factory in sealed and purged with dry nitrogen. The containers should be kept tightly sealed and stored in a cool and dry area that is protected from direct sunlight and moisture. Storage temperatures should not exceed 80 F. The shelf life of factory sealed containers stored under these conditions is one year.

Containers that have been opened should be resealed immediately after material has been removed in order to prevent moisture contamination and solvent evaporation. Resin component containers should be purged with dry nitrogen if the contents are not used within 24 hours after opening.

The resin portion of TOPCOAT CRX will crystallize when exposed to temperatures below 40 F and the curative portion may crystallize when exposed to temperatures below 20 F. This does not harm the components; however, the resin component should be warmed to 90 - 100 F and the curative component to room temperature and each component mixed well before using. The components should not be overheated and should be cooled to room temperature before mixing together. After long term storage it is a good policy to stir each component before adding them together.

CLEAN UP

Equipment must be cleaned immediately after use to prevent build up of cured urethane on internal parts of equipment. Solvents, such as toluene Tertiary Butyl Acetate or mineral spirits work well for cleaning spray equipment. As soon as spraying is completed, solvent should be pumped through the pump, hose and spray gun until solvent comes out clear. Dispose of all empty TOPCOAT CRX component containers in accordance with local, state and federal regulations. Empty component containers can be rendered non-hazardous by rinsing the containers with a small amount of mixed material and allowing the solvents to evaporate. The containers will then contain non-hazardous cured urethane.

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REPAIR OF CURED COATING

TOPCOAT CRX may be repaired by abrading and priming surfaces with Primer 460 then applying additional Topcoat CXR.

SAFETY

Vapors from TOPCOAT CRX contain isocyanates and solvents. Forced ventilation must be used for all indoor applications, in closed vessels or downstream from spray gun, fresh air breathing equipment should be worn. Chemical cartridge masks suitable for organic vapors may be used under some conditions with adequate ventilation. Protective clothing should be

worn at all times. Both resin and curative components contain flammable solvents and should be protected from sparks and open flames.

Avoid contact of components with skin and clothing as both resin and curative can cause skin and eye irritation. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. If swallowed, DO NOT induce vomiting. Call a physician at once. Keep out of reach of children.

Disclaimer:

The results presents here are based on controlled laboratories and should only be used as a general guide as results may vary depending on the individual application . It is mandatory that the user make the final determination of the fitness of this product for use in their individual applications.

Industrial Polymers Corporation makes no warranty expressed or implied about the performance of this product.