



Coating Holdings LTD

1137 W Fond du Lac St
Ripon WI 54971

ORDC

Product Description

- Two component, 100% solids polymer for restoration of concrete and protection of concrete, steel, wood, blacktop and other hard surfaces
- Elastomeric
- Exhibits excellent resistance to cracking due to expansion and contraction
- Supplied as two components; Part B-Resin Part A; Hardener)
- Resist salt and moisture penetration
- No VOC's and low odor
- Superior adhesion
- Withstands abrasion, impact and heavy traffic
- Unsurpassed water resistance
- Low chloride permeability
- Resistant to many chemicals and acids
- Can be used in any thickness from more than one foot down to a feathered edge

Primary Applications

- ORDC adheres well to several substrates, including concrete, steel, wood and blacktop.
- Interior and exterior applications
- For use in repairing holes, cracks and spalls in concrete
- Repair broken concrete edges and vertical holes
- Pothole repair in runways, roads and driveways

Limitations

- Surface must be completely dry to allow adhesion
- Concrete sealers and some paints may prevent adhesion
- High humidity or low temps will extend cure times
- May lift underlying coatings, loose concrete, laitance or dirt
- A clean, dry surface is necessary
- UV resistant, but not colorfast. Lighter colors will not retain their original color when exposed to sunlight.

Typical Component Properties

Properties shown are for general information only. They are approximate values and are not part of the product specification.

	Part A	Part B
Net Weight (lbs/gal)	10.3	12.0
Spec Gravity @ 77°F	1.21	1.38
Viscosity @ 77°F	200	3500

Typical Physical Properties

Property	Value	ASTM
Density	1.3 g/cc	D-1622
Hardness, Shore D 22 shore D (250 mil unsupported)		D-2240
Hardness, Shore D 75 shore D (30 mil on concrete)		D-2240
Tensile Strength	425 psi	D-2370
Elongation	90%	D-2370
Modulus of Elasticity	2500 psi	695
Compressive strength	9000 psi	695
Taber abrasion	0.1% wt loss/1000 cycles	D-4060
	CS-10, 1000 cycles	
Robinson floor test	Pass	C-267
Water absorption	0.010%	ICBO AC-29
Moisture permeability	5.3x10 ⁻⁶ lbs/hr/ft	D-1653
Rapid Chloride Perm	2 Coulombs	
	C-1202	
Adhesion to concrete	>167 psi (concrete failure)	D-4541
Adhesion to steel	>400 psi (concrete failure)	D-4541
Gloss, 60°	25	D-525
Coefficient of	91.2x10 ⁻⁶ /°K	D-5335
	Linear expansion	
Surface burn-flame	15	CAN/ULC S102-M88
Surface burn-smoke	105	CAN/ULC S102-M88

Processing Conditions

Mix ratio (A:B) by volume-Flexible	1:1
Mix ratio (A:B) by volume-Tuffcoat	1:1
Thinning (MEK/toulol in 50/50 ratio	3% to 10% by weight or volume of mixed A & B
Thinning (odorless mineral spirits)	3% to 5% by weight or volume of mixed A & B
Application temperatures	32°F to 100°F surface

Approximate Drying/Curing time @ 70°F and 50%

Relative Humidity

Drying/curing time is affected by temperature and relative humidity.

	Thin-Mil	Hole-filling
Pot life	25-35 min	8-12 min
Tack free	1-2 hours	15-20 min
Foot traffic	4-8 hours	30-45 min
Heavy traffic	24-36 hours	30-45 min
Between coats	12 hours	not necessary



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Approximate Coverage

Being a 100% solids product, theoretical wet mil and dry mil coverage figures are the same. However, coverage figures do not include material loss due to mixing, surface irregularities, or porosity. See the estimating guide for additional information

Coating Thickness (1000 mils=1")	Coverage per gallon
30 mils	53.5 square feet
20 mils	80.2 square feet
10 mils	160.4 square feet

Packaging

Available in 1 gallon, 5 gallon and 25 gallon kits. Specialty kits available for ORDP (DuraPatch)

Colors

The standard color is gray. Colors also available in vanilla, tan, charcoal gray, black, brown, tile red, yellow, blue and green.

Storage and Handling

Part A should be stored in tightly closed containers at temperatures of 40-80 degrees F. Under these conditions, the product will have a shelf life of one year. Protect from freezing. Exposure to cold or heat for prolonged periods and exposure to moisture adversely affects the quality and shelf life of the product. The hardener may become cloudy or exhibit significant increases in viscosity if not stored properly.

Part B should be stored in tightly closed containers to prevent contamination with atmospheric moisture. Storage temperature should be 40-80 degree F. The product will have a shelf life of one year in unopened and properly stored containers. The resin will exhibit settling of the mineral filler upon prolonged storage; therefore resin must be thoroughly agitated prior to use.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when working with the ORDC Parts A and B. Before working with these products, you must read and become familiar with the information on the hazards, handling and proper use of this material. The information is contained in the MSDS.

Warranty

The technical data and any other printed information furnished by Coating Holdings LTD are true and accurate to the best of our knowledge. ORDC conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. Coating Holdings LTD makes no warranty; expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.

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