

## COR+ROC™ Technical Data Sheet

### STRUCTURAL POLYMER LINING

**COR+ROC™ is a two-component, 100% Solids, high strength structural polymer gel for one step structural lining and chemical corrosion protection of underground sanitary sewer structure such as manholes and wet wells. It's no sag formulation allows it to be used on vertical and overhead surfaces. It is moisture insensitive and may be used on dry, damp, or wet (surface saturated dry) surfaces.**

#### USES

Structural polymer Lining  
Protective coating  
Spot mortar repair  
Adhesive for: wood, steel, fiberglass grouts and new to old concrete  
Compatible with Permacast® mortars  
Compatible with COR+GARD® epoxy  
Protection for reinforcing steel

#### PACKAGING

2-gallon, 10-gallon kits and 55-gallon drums.

#### POT LIFE

20-35 minutes at 72°F

#### LIMITATIONS

Do not thin COR+ROC™ because solvent will prevent proper cure.

#### PHYSICAL PROPERTIES

Consistency, sag, in.	0.0
Deflection Temperature	121°F
Gel Time, min., 72°F	20
Water Absorption, %	0.64
Compressive Strength, psi 7 days	15,520
Diagonal Shear Strength, psi	2,805
Flexural Strength	20,152 psi
Modulus of Elasticity	538,270 psi
Tensile Strength	8,272 psi
Hardness, Shore D	87
VOC Content	0%

The Physical properties contained herein were obtained under laboratory conditions at 72° F. Physical properties obtained under field conditions may vary due to environmental variables. Data are subject to reasonable deviation.

#### MIXING

Combine A component with B component at the ratio of 1 to 1 by volume. Mix for approximately 3 minutes with a Jiffy mixer (or equivalent) on a low speed (400-600 rpm) drill until uniform color and consistency is obtained. It is designed for application both neat and as polymer concrete. Proportion of aggregate to mixed epoxy varies with proposed end use - do not exceed 3 parts aggregate to 1-part mixed COR+ROC™

#### CAUTION

Aggregate must be oven dried to avoid encapsulation of moisture.

#### VISCOSITY

Thixotropic gel -250,000 cps at 72°F

#### COLOR

Gray (mixed)

#### MIX RATIO

1: 1 (A: B) by volume

#### PREPARATION

Clean substrate, remove laitance, curing compounds, other coatings, oil, grease, rust, waxes, and other bond-inhibiting substances. All surfaces must be clean sound, and free of surface water. Clean by mechanical abrasion methods such as sandblasting. Concrete may be damp or dry.

#### CAUTION

Pot life is dependent upon material temperature and quantity mixed. The greater the mass the shorter the pot life. Mix only that quantity that can be applied within its pot life or use with high pressure heated, plural component pumps.

#### COVERAGE

1-gallon neat - 231 cu. in.  
1-gallon mixed A & B with 2 gallons aggregate yields approx. 462 cu. in. of polymer concrete.  
1-gallon covers 1 VF in 48" dia. manhole @ 125 mils

## LIMITATIONS

COR+ROC™ produces a vapor barrier. Do not apply to surfaces where transmitted vapor can condense and freeze under adhesive. Minimum application temperature 40°F.

## CLEAN-UP

Clean tools and equipment with solvent to remove uncured material.

## STORAGE

Store inside in tightly closed containers at moderate temperatures; avoid overheating and freezing. Opened containers should be sealed as soon as possible to prevent moisture contamination. Shelf life is two years in original packaging.

## HANDLING PRECAUTIONS

*FOR INDUSTRIAL USE ONLY!* **Warning!** May produce skin irritation and on prolonged contact may cause serious skin dermatitis. Skin contact should be avoided by use of protective clothing such as rubber gloves and eye protection. Any skin coming in contact with resin should be washed thoroughly with soap and water. Eye contact

should be avoided; should it occur, flush thoroughly with water for at least 15 minutes.

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