

WOL-COAT[®]

Protective Coatings and Repair Products

wol-coat.com

WOL-COAT 310 is a high performance, versatile interior coating for use in the waste water treatment industry. When mixed at ratio of one to one, this 100% solids, chemically cured, amine epoxy with excellent chemical, corrosion, moisture, stain and abrasion resistance produces a great coating. When applied by trained personnel over a properly prepared surface it produces a seamless, monolithic, and durable coating. It is used to coat the interior in WWTP in tank walls, head works, lift stations, manholes and other concrete and steel structures used in the processing of waste water.

"It is the best coating/liner that I know of today." John Wolfe
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WOL-COAT® 310

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General Description:

A high performance, versatile, two part, 100% solids, chemically cured, amine epoxy with excellent chemical, corrosion, moisture, stain and abrasion resistance.

Typical Uses:

Lining manholes, large diameter sewer pipe, lift stations, tanks, and other concrete and steel structures. When applied by trained personnel over a properly prepared surface it produces a seamless, monolithic, and durable coating.

Features:

- Zero VOCs
- Chemical and stain resistant
- Outstanding hardness
- Easily washed and cleaned
- Excellent moisture resistance
- Resists splash and spillage of acids, alkalis, salts, solvents, oils, grease, and detergents
- Abrasion resistant

Color: Gray, or as special ordered

Bonds well to cool, damp concrete

Packaged in 4 gallon and 10 gallon kits.

Mix ratio of 1 part A to 1 part B

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Exterior exposure will cause early dulling and loss of gloss. This will not affect the protective properties.

Typical Properties:

Compressive Strength (ASTM D-695)

10,000 to 12,000 psi

Tensile Strength (ASTM D-638)

7,000 psi

Bond Strength (ASTM D-4541)

400 psi, 100% concrete failure

Pot Life 50 minutes

Tack Free Time @ 90°F 1 to 2 hours

Full Service @ 77°F is 36 hours Recoat Time @

90°F is 4 hours. The above data reflects typical

results based on laboratory controlled conditions.

Reasonable variations from the data shown above

may result from changes of on site application

variables.

Chemical Resistance:

Acetic Acid	2
Butyl Cellosolve	2
Ethanol	2
Ethylene Glycol	1
Lactic Acid 10%	1
Methanol	2
Methyl Ethyl Ketone	3
Menobutyl Ether	2
Skydrol	1
Sodium Hydroxide 50%	1
Sodium Hypochlorite 10%	1
Sulfuric Acid	1
Sulfuric Acid 98%	NR
Toluene	1
Trichloroethane	1
Water, deionized	2
Xylene	1

1=suitable for immersion, splash & spillage conditions

2=suitable for occasional/intermittent contact to 72 hours

3=suitable or occasional/intermittent contact short periods, washed often

NR= not recommended.

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General Surface Preparation

- All surfaces to be coated should be clean, dry, and free from contamination prior to coating application. All surfaces should be treated in accordance with ISO 8504 2000. All surfaces should be abrasive blasted and/or mechanically blasted, creating a surface profile like 60 grit sandpaper or coarser. New concrete should be cured a minimum of 28 days.
- Moisture vapor transmission should be under 3 lbs. or less over 1,000 square feet during a 24 hour period, as confirmed by a calcium chloride test or less than 75% RH per ASTM F2170. All surface irregularities, cracks, expansion joints, and control joints should be properly addressed prior to the application.
- Steel should be prepared according to SSPC-SP-10 (NACE-2).

Application Limitations:

Do not apply in temperature less than 40° F or greater than 95° F. Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures. Both components A and B should be stored in a dry place at a temperature between 55° F and 75° F. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab. Wol-Coat 310 can be thinned up to 10% by volume with Methyl Ethyl Ketone (MEK). Confirm product performance in specific chemical environment prior to use. Substrate temperature must be at least 5° F above the dew point.

Installation Procedures:

1. Priming is not required.
2. Mix components A and B separately until consistent. Then mix together components A and B. When mixing always mix thoroughly using a mechanical, jiffy-type mixer, until a uniform blend is attained. Scrape all sides and bottom of the containers during mixing.
3. Apply by brush, roller, or spray. Material is tack-free within 4 hours @ 75° F. Multiple coats can be applied between 10-24 hours of the previous coat. Recommended spray equipment: 45:1 Airless Sprayer with reverse-a-clean tips with an orifice size of .020"- .025". Beware of pot life when using spray equipment.

Recommended Film Thickness:

A minimum total of 40 mils D.F.T. applied in two coats at 20 mils per coat.

Drying Time:

Application temperature range is 60° F - 95° F (16° C - 35° C). At 77° F (25° C) and 50% R.H., dries to touch in three to five hours. Full cure in seven days. Dries to light foot traffic on concrete floors in 24 hours. Low temperature, high humidity, thick films, or poor ventilation will increase these times. Lack of ventilation and/or the use of portable fuel burning heaters that produce exhaust gases during application and initial stages of curing, may cause yellowing to occur.

Limitation of Liability:

Wol-Coat 310 is warranted for a period of two years from the date of sale to be free of manufacturing defects, to meet the published standards when handled, stored, mixed, and applied as specified by Wol-Coat. This product is manufactured to rigid control specifications. It is impossible to control the use and application. Therefore, the manufacturer's sole liability is limited to replacing quantities of the product proven to be defective. The manufacturer disclaims any liability for the cost of labor to reapply or any other cost in the use of this product.

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