

Coal Tar Epoxy 100% Solids

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COAL TAR EPOXY COATING

Coal Tar Epoxy - Two Component - 100% Solids

Product #209

PRODUCT DESCRIPTION

Coal Tar Epoxy Coating Product #209 is a two component 100% solids epoxy coating designed for applications to petroleum contaminated concrete, coating asphalt based surfaces, [clean](#) concrete, cement, and [properly prepared](#) steel.

LIMITATIONS

- Color stability may be affected by environmental conditions such as high humidity, low temperatures or chemical exposure.
- Colors may vary from batch to batch. Therefore, use only product from same batch for an entire job.
- is not intended for use as a decorative coating or where color stability or visual appearance is of any significant importance. Its sole purpose is as a protective coating.
- If a top-coating of another epoxy is not black, multiple coats will be necessary to prevent bleed-through (discoloration)
- Substrate temperature must be 5°F above dew point when applying Coal Tar Epoxy #209.

- For best results, apply with a 1/4" nap roller.
- All new concrete must be cured for at least 30 days prior to application.
- Physical properties are typical values and not specifications.

PRIMER

No primer required.

TOPCOAT

No top-coating required.

PRODUCT STORAGE

Store in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Low temperatures or great temperature fluctuations may cause product crystallization.

SURFACE PREPARATION

The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil, and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause lifting. For more information consult the [Surface Preparation Guide](#).

PRODUCT MIXING

Product has a mix ratio of 9.0# (1 gallon) part A to 9.0# (1 gallon) part B. Mix equal volumes of the two components with a jiffy mixer or other suitable equipment until the material is thoroughly mixed. After mixing, transfer the mixed material to another pail (the transfer pail) is now ready to be applied. Improper mixing may result in product failure.

PRIMING

A primer is not necessary, however, if the substrate is excessively porous, a suitable primer can be used to help eliminate any surface defects resulting from air release from the substrate.

PRODUCT APPLICATION

The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures within the recommended range during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

RECOAT OR TOPCOATING

If you opt to recoat or topcoat, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be de-glossed to insure a trouble free bond prior to application of recoats or topcoats. Always remember that colder temperatures will require more cure time for the product before recoating or top-coating can commence. Before recoating or top-coating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or de-glossing). If a blush is present, it must be removed prior to top-coating or recoating. For top-coating with the **material** just topcoat. However, if top-coating with other colored topcoats, multiple coats will be required to prevent bleed-through. Contact Epoxy.com Technical Support for further

details.

CLEANUP

Use Xylene

Cleaning

Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

Handling Properties

SOLIDS BY WEIGHT	100%
SOLIDS BY VOLUME	100%
VOLATILE ORGANIC CONTENT	zero pounds per gallon
STANDARD COLORS	This product is available in black only
RECOMMENDED THICKNESS	12 mils
COVERAGE PER GALLON	130-140 square feet per gallon @ 12 mils
PACKAGING INFORMATION	2 gallons kit (18.0 pounds net approximately) 10 gallons kit (90 pounds net approximately) (volumes and weights approximate)
MIX RATIO	9.0 pounds (1 gallon) part A to 9.0 pounds (1 gallon) part B (volumes and weight approximate)
SHELF LIFE	1 year in unopened containers

Product #209 Physical Properties

ABRASION RESISTANCE	Taber abraser CS-17 callibrase wheel with 1000 gram total load and 500 cycles= 32 mg loss.
VISCOSITY	Part A= 1800-2500 cps (typical)
DOT CLASSIFICATIONS	Part A "not regulated" Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"
FLEXURAL STRENGTH	7,346 psi @ ASTM D790- 1/2"x1/2' bars span 4"
COMPRESSIVE STRENGTH	6,509 psi @ ASTM D695
TENSILE STRENGTH	5,128 psi @ ASTM D638
ULTIMATE ELONGATION	7.4%
GARDNER VARIABLE IMPACTOR	50 inch pounds direct- passed
ADHESION	420 psi @ elcometer (concrete failure, no delamination)
WEATHERING	Good stability with some discoloration
HARDNESS	Shore D= 81

CURE SCHEDULE (70°)

Pot Life (2 gallon volume)	20-30 minutes
Tack Free (dry to touch)	6-8 hours
Recoat or Topcoat	7-9 hours
Light Foot Traffic	14-16 hours
Full Cure (heavy traffic)	2-7 days

Application Temperature 55-90 degrees
F

CHEMICAL RESISTANCE

REAGENT	RATING
xylene	C
1,1,1 trichloroethane	C
MEK	A
methanol	A
ethyl alcohol	C
skydrol	A
10% sodium hydroxide	D
50% sodium hydroxide	C
10% sulfuric acid	B
70% sulfuric acid	A
10% HCl (aq)	C
5% acetic acid	A

Rating key:

A - not recommended

B - 2 hour term splash spill

C - 8 hour term splash spill

D - 72 hour immersion,

E - long term immersion.

NOTE: extensive chemical resistance information from:

Epoxy.com Technical Support.

Proper mixing and installation is critical to the optimal success of all product. See [Installation Tips](#), [Techdata](#), & [MSDS](#) for more details on our products. Be sure to contact us with any questions and/or concerns that you have.

For more information please contact:

Epoxy.com

A Division of [Epoxy Systems, Inc](#)

20774 W. Pennsylvania Ave.

Dunnellon, Florida 34431

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Customer and Technical Support Hours: 9AM-4PM Eastern Time (6AM-1PM Pacific Time).

Closed 12 Noon-1PM Eastern Time for Lunch

321-206-1833 Customer Service - Ordering and Order Status

Katey Fontaine, VP - Customer Service Director

sales@epoxy.com

Technical Support

352-533-2167 Norm Lambert, President - Technical Support Director

info@epoxy.com

352-489-1666 Accounting and Administration

Debby Lambert, CEO, and CFO

office@epoxy.com

352-489-1625 Fax line to all Departments



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