TEC100

100% SOLIDS TAR EPOXY COATING

TEC100 PRODUCT PAGE

SPECIALTY COATING

TECHNICAL DATA SHEET

TEC100 - Tar Epoxy Coating by Spartan Epoxies is an advanced two-component, 100% solids epoxy formulation. Designed meticulously for superior adhesion and resilience, this coating is ideal for treating surfaces contaminated by petroleum. Furthermore, it's optimized for application on asphalt-based surfaces, ensuring both protection and an enhanced finish.

Recommended for resurfacing asphalt base substrates, concrete, or cement.

SOLIDS BY WEIGHT: 100%

SOLIDS BY VOLUME: 100%

VOLATILE ORGANIC CONTENT: Zero pounds per gallon

COLORS AVAILABLE: This product is available in black only

RECOMMENDED FILM THICKNESS: 12 mils

COVERAGE RATE: 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

ABRASION RESISTANCE: Taber abraser CS-17 callibrase wheel with 1000 gram total load and 500 cycles= 32 mg loss.

VISCOSITY: Part A= 2200-3000 cps (typical)

DOT CLASSIFICATIONS:
Part A "Not Regulated"
Part B "CORROSIVE LIQUID N.O.S., 8, UN1760,PGIII"

FLEXURAL STRENGTH:
7,340 psi @ ASTM D790- 1/2"x1/2' bars span 4"

YIELD COMPRESSIVE STRENGTH:
6,509 psi @ ASTM D695- 1/2"x1/2" bars

TENSILE STRENGTH:
5,100 psi @ ASTM D638 – testing dimensions F=2.25", W= 0.500", T= 0.125", D=4.5" and rate=0.2/minute

ADHESION:
440 psi @ elcometer (concrete failure, no delamination)

ULTIMATE ELONGATION: 7.6%

GARDNER VARIABLE IMPACTOR:
100 inch pounds direct- passed

HARDNESS: Shore D = 81

WEATHERING: Good stability

PRIMER: None required (see reverse for options)

TOPCOAT: None required (see reverse for options)

CURE SCHEDULE (70°F)	
Pot Life (2 Gallon Volume)	20 - 30 minutes
Tack Free (Dry to Touch)	6 to 8 hours
Recoat or Topcoat	7 to 9 hours
Light Foot Traffic	14 to 16 hours
Full Cure (Heavy Traffic)	2 to 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% HC1 (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 is available through your Spartan Epoxies representative.

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.
*Apply a suitable primer when necessary before using.
*This product 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 topcoat of a different color is to be used, multiple coats will be necessary to prevent bleed-through (discoloration)
*Substrate temperature must be 5°F above dew point.
*For best results, apply with a 1/4" nap roller.
*All new concrete must be cured for at least 30 days prior to application.
*See reverse side for application instructions.
*Physical properties are typical values and not specifications.

*See reverse side for limitations of our liability and warranty.

PRODUCT STORAGE: Store product 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 disbonding.

PRODUCT MIXING: This 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 A primer is not necessary when using this product, 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 this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be deglossed 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 topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. For topcoating with the same product, merely topcoat. However, if topcoating with other colored topcoats, multiple coats will be required to prevent bleed-through. Contact your representative for further details.

CLEANUP: Use xylol.

FLOOR 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.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.