

PROTECH 4900-PE

Poly Ester

Technical Data

DESCRIPTION: Protech 4900-PE is an ISO laminated monolithic floor topping system formulated to withstand severe chemical attack, aggressive and high temperature environments. Protech 4900-PE offers exceptional chemical, solvent and abrasion resistance for solving your corrosion problems. Protech 4900-PE cures quickly at ambient temperatures, eliminating long down time. This non-skid floor is capable of withstanding high traffic and heavy loads. USDA APPROVED!

RECOMMENDED USES: Factories - creameries - locker plants - bottling plants - bakeries - cheese manufacturing plants - breweries - meat packing plants - pulp and paper mills, and any area exposed to EXTREME chemical and abrasion attack.

CHEMICAL RESISTANCE:

Ethanol	95% at 75 deg. F.	Excellent, recommend clean up within 8 hours.
Gasoline	at 75 deg. F.	Excellent, no effect after 20 day exposure.
HCl	10%,20%,37% at 75 deg. F.	Excellent, no effect after 20 day exposure.
Lactic Acid	8.5% and 85% at 75 deg. F.	Excellent, no effect after 20 day exposure.
Nitric Acid	10% at 75 deg. F.	Excellent, recommend clean up within 72 hours.
Nitric Acid	70% at 75 deg. F.	Good, recommend clean up within 1 hour.
Phosphoric	8.5% and 85% at 75 deg. F.	Excellent, no effect after 20 day exposure.
Sodium Hydrx	10%,20%,50% at 75 deg. F.	Excellent, no effect after 20 day exposure.
Sulfuric	5% and 20% at 75 deg. F.	Excellent, no effect after 20 day exposure.
Sulfuric	97% at 75 deg. F.	Excellent, recommend clean up within 8 hours.
Citric Acid	50% at 75 deg. F.	Excellent, no effect after 20 day exposure.

PHYSICAL CHARACTERISTICS: Flexural strength, ASTM C581: 19,500 psi
Tensile strength, ASTM C581: 13,800 psi
Tensile elongation, ASTM C581: 1.9%

FINISH: Non-skid as required.

VOLUME SOLIDS: Liquid components: 50% +/- 2%

FLASH POINT: ISO
Part A: 137 deg. F.
Part B: 88 deg. F.
Part C: Nonflammable
Part D: 88 deg. F.

SUGGESTED THICKNESS: Nominal thickness of 1/4" to 3/8". If surface is extremely rough additional material may be required.

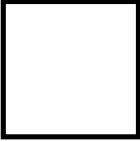
THEORETICAL COVERAGE: Approximately 550 sq. ft. per 55-gallon drum unit or 45 sq. ft. per 5-gallon unit at 3/8" thickness..

COLORS: Brown, gray, red

PACKAGING: 5-gallon unit or 55-gallon unit

SHIPPING WEIGHT: 5-gallon unit = 200 lbs.
55 gallon unit = 2200 lbs.

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SURFACE PREPARATION: OLD CONCRETE: Remove all powdery, weak concrete, paint, waste, oil, grease and all other loose or foreign materials and contaminants. To provide the foregoing requirements, it is necessary to prepare the surface using one or more of the following methods, 1) abrasion blasting 2) scarification 3) acid etching. NEW CONCRETE must have a minimum of 28 days to cure and no curing agents or sealers shall be used. All surfaces must be dry before application. METAL: Clean by solvent degreasing, followed by abrasive blasting to near white (SSPC-10-70) or NACE #2 with a minimum of 4 mil anchor tooth.

PRIMER: Parker Probond primers. Consult the Parker Technical Department for your specific application.

CHASING EDGES: Key all doorways, drains, open endings and covers (other than square horizontal/vertical terminations) in order to maintain minimum floor topping thickness and to avoid feather edging. 1) Saw cut at doorway, drain, ending or cover to approximately 3/8" in depth. 2) Chisel a shoulder to saw cut or drain back approximately 2-4 inches 3) Completed floor will fill chiseled area and meet the adjacent level, yet maintain minimum material thickness.

MIXING: 1) Mix 2 ounces of 4900-PE Part A (catalyst) per gallon of 4900-PE Part B (resin). 2) Mix thoroughly in a clean 5-gallon bucket for 2 minutes.

POT LIFE: The working life of this mixture is 30 minutes at 70 degrees F. and 50% R.H.

GROUTING: The multi-layered flooring system will cover holes and depressions in the substrate up to 3/4" deep during normal installation. Holes larger than 3/4" deep can be filled with a mixture of resin and aggregate before applying the first aggregate coat. Mix one gallon resin and 2 oz. catalyst with approximately 4 gallons of aggregate to produce a trowelable grout. The mixture should be troweled to relatively smooth surface.

APPLICATION TEMPERATURE: The ambient and surface temperature for application must be greater than 50 deg. F.

CURE TIME: 4900-PE will normally harden within 3-6 hours at 70 deg.F. Complete cure may require up to 72 hours at 70 deg. F. and 50% R.H.

APPLICATION: Pour resin (as per mixing instructions) mixture onto the floor in a ribbon, close to the starting edge or wall. With the aid of a squeegee (long handles 24" for open areas or hand squeegee for small areas) or roller, spread the resin mixture back and forth across the floor working it away from the starting edge or wall. After each batch is applied, immediately broadcast aggregate heavily into resin layer at a rate of approximately one pound per square foot, leaving no trace of wet or shiny spots. Leave a wet edge for the next batch to connect to. NOTE: Do not allow resin mixture to harden before broadcasting aggregate. Resin may begin to harden in 5 minutes. Move to an adjacent area and repeat this process (connecting to wet edge of the previous batch) until the entire area to be overlaid has received its first aggregate coat. When the floor can be lightly swept without disturbing embedded aggregate (after about an hour), sweep up excess aggregate keeping it clean for reuse. Take care to ensure that no contamination of the surface occurs between aggregate coats from spillage, moisture or traffic.

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APPLICATION OF ADDITIONAL AGGREGATE COATS: Repeat as with the first aggregate coat (using squeegee only to spread the resin mixture). Resin mixture coverage should be approximately 40-55 square feet per gallon. Repeat as required to obtain an approximate 3/8" thickness (Approximately 4 aggregate coats will be required.)

APPLICATION OF VEIL COAT: The application of the veil coat determines the degree of non-skid for the finished floor. Veil coat thickness can be adjusted to provide pronounced non-skid to a smooth finish. While determining the degree of non-skid for the finished floor, keep in mind that too smooth can be slippery and too rough can be difficult to clean. (A coverage of 55-60 square feet per gallon will provide an adequate non-skid yet cleanable surface. Test in an "out of the way" area to determine customer acceptance prior to proceeding to full scale. Mix a small amount of resin and catalyst (as per mixing instructions.) Apply the mixture to the floor with a squeegee and/or roller selecting a finish for the area. A roller applied veil coat will provide a very pronounced non-skid, while a squeegee applied veil coat will result in a moderate non-skid. The degree of non-skid may be further lessened by adding coats of resin mixture. Once the test area is completed you can proceed with the application of the entire veil coat. Mix 2 ounces of 4900-PE Part A catalyst per gallon of Part B resin as in the mixing instructions, and add 4 ounces per gallon of surfacing agent. Apply veil coat to the surface at the required rate to attain selected non-skid feature.

IMPORTANT! Without adding surfacing agent to the mixture in the final coat, the surface will remain tacky indefinitely, but the surface agent must not be added until positively the last coat, AS REBONDING ADDITIONAL COATS REQUIRES SPECIAL METHODS OF TREATING THE SURFACE.

CLEAN UP: Cured or hardened 4900-PE sticks to practically everything and is almost impossible to remove. Clean tools immediately with lacquer or acetone (Caution: These solvents are flammable.)

CAUTION: It is recommended that the personnel observe good personal hygiene. Certain personnel may be sensitive to various types of resins that may cause dermatitis. Do not use in confined space or closed area without adequate ventilation. This product may be irritating to eyes and skin. Avoid contact with liquid components A and B and keep mortar from touching tool handles and clothes. Use coveralls, goggles, rubber gloves or protective cream. Always wash thoroughly with soap and warm water after use. Should accidental eye contact occur, wash thoroughly with water and consult a physician immediately. US Department of Labor approved material data sheet is available.

All technical advice, recommendations and services are rendered by the Seller gratis. They are based on technical data which the Seller believes to be reliable, and are intended for use by persons having skill and know-how, at their own discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use by Buyer in whole or in part. Such recommendations, technical advice or services are not to be taken as a license to operate under or intended to suggest infringement of any existing patent.

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