

CHEMLINE 3900-VEL
VINYL ESTER LINER

Technical Data

DESCRIPTION: Chemline 3900-VEL liner is a monolithic liner initially designed for the extreme chemical resistance needed in industry. This very durable liner has excellent adhesion to concrete, metal and wood. The excellent chemical resistant finish is not affected by water, gasoline, oil, brine, most acids and alkalines.

RECOMMENDED USES: Trough Walls - Acid Pits - Tanks - Foundations - Chutes - Conveying Tunnels - Trenches - Cyclones - Scrubbers

CHEMICAL RESISTANT :

Pulp and paper effluent	100%	Excellent for temperatures up to 180 deg. F.
Fatty Acid	All concentrations	Excellent for temperatures up to 210 deg. F.
Phosphoric Acid	All concentrations	Excellent for temperatures up to 210 deg. F.
Sodium Hydroxide	5%	Excellent for temperatures up to 180 deg. F.
Sodium Hydroxide	10% and 25%	Excellent for temperatures up to 150 deg. F.
Sodium Hydroxide	50%	Excellent for temperatures up to 180 deg. F.
Sulfuric Acid	0-50%	Excellent for temperatures up to 210 deg. F.
Sulfuric Acid	50% - 70%	Excellent for temperatures up to 180 deg. F.
Sulfuric Acid	75%	Excellent for temperatures up to 120 deg. F.

PHYSICAL PROPERTIES: Compressive strength, ASTM D695: 13,000 - 15,000 psi
Tensile strength, ASTM D638: 1,500 - 2,500 psi
Flexural strength, ASTM D790: 5,300 - 6,000 psi

FINISH: Smooth - Glossy

VOLUME SOLIDS: All components - 90%

FLASH POINT: Part A: 137 deg. F. Seta Flash
Part B: 75 deg. F. Seta Flash
Part C: Nonflammable
Part D: 88 deg. F. Seta Flash

SUGGESTED THICKNESS: 1/8"

THEORETICAL COVERAGE: 11 sq. ft.* per batch at 1/8" thickness. * Material losses during mixing and application vary and should be taken into consideration when estimating job requirements.

COLOR: Amber

PACKAGING: 1 unit = 3 batches

1 batch = 1 oz. Part A, Activator

Part B, short filled 1/2 gallon

1 box Part C, Aggregate

SHIPPING WEIGHT: 1 unit = 60 lbs.

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 recommendation, technical advice or services are not to be taken as a license to operate under or intended to suggest infringement of any existing patent.

PARKER COATINGS, INC. - 2451 W. MASON ST. - GREEN BAY, WI 54303
920-494-9676 800-236-9676



SURFACE PREPARATION: NEW CONCRETE must have a minimum of 28 days cure, and no curing agents shall be used. Remove oil, grease or other loose foreign material or contaminants. A good bonding tooth is necessary. To provide bonding tooth, prepare the surface by sandblasting, scarifying, shot blasting or acid etching. OLD CONCRETE: Remove all powdery and weak concrete. Make sure all wax, dirt, grease and other contaminants have been removed. Once the concrete has been cleaned, one or more of the following methods shall be used to prepare the concrete for proper bonding: Sandblast with fine sand and reduced pressure, shot blasting, scarifying or acid etching. All surfaces must be dry before application. METAL SURFACES should be cleaned by solvent degreasing followed by abrasive blasting to near white SSPC-10-70 to NACE #2 with a 4 mil minimum anchor pattern or "tooth".

PRIMER: Parker Probond primers. Consult the technical department for your particular application.

MIXING: Empty the contents of Part A into Part B and stir thoroughly for approximately 2 minutes. Empty the mixture into a mixer or mortar box and slowly mix in Part C. Mix approximately 3 minutes.

POT LIFE: 15-20 minutes at 70 deg. F. and 50% R.H.

APPLICATION TEMPERATURE: Do not apply when surface temperature is below 50 deg. F. Material temperature should be 70 deg. F. to 85 deg. F. for at least 48 hours before application.

CURE TIME: Chemline will harden in about 8 hours at 70 deg. F. Cure time is 72 hours at 70 deg. F. The higher the temperature, the faster the cure. For example, at 170 deg. F. Chemline would cure in approximately 4 hours. Maximum chemical resistance is 7 days at 77 deg. F.

APPLICATION: Spread mixed mortar evenly over surface. Build up low spots to desired thickness, using margin trowel or steel finishing trowel. Finish each batch as you go. If using primer, Chemline must be applied before primer has hardened. Primer will harden in approximately 1 hour at 70 deg. F. If primer hardens before liner is applied, it must be whip blasted, removing all gloss before topcoating.

VEIL COAT: Mix contents of Part A with contents of Part B, then add contents of Part D and mix thoroughly for two minutes. **NOTE:** Without applying veil coat the surface will remain tacky indefinitely. Veil coat should not come in contact with the surface on which 3900-VEL is to be applied.

CLEAN UP: Cured or hardened Chemline is almost impossible to remove. Clean tools and equipment immediately with P34T Thinner.

CAUTION: It is recommended that the personnel observe good personal hygiene. Certain personnel may be sensitive to various types of resins which 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. U.S. Department of Labor approved material data sheet is available.

LIMITED WARRANTY: The Manufacturer warrants this product to be free from defects in material and workmanship under normal use and service for a period of one year of the date of purchase. The Manufacturer's sole liability shall be limited to replacing this product if, within one year of the date of purchase, it is shown to be defective. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS OF PURPOSE. THE MANUFACTURER SHALL NOT BE LIABLE FOR INDIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY KIND. This warranty shall not be extended, altered or varied except by a written instrument signed by the Manufacturer.