

CHEMLINE 3600-HHC
HIGH HEAT AND CHEMICAL

Technical Data

DESCRIPTION: Chemline 3600-HHC is a monolithic liner for corrosion and abrasion resistance at high temperatures. It withstands temperatures up to 325 deg. F. and will cure at 70 deg. F. This durable liner has excellent adhesion to concrete or metal and should be used wherever performance is needed in aggressive chemical environments at high temperatures. Chemline 3600-HHC is the ideal liner for high temperature performance with low temperature cure.

RECOMMENDED USES: Clarifiers - Trough Walls - Pumps - Ventilating Systems - Foundations - Trenches - Chutes - Conveyors - Troughs - Tanks - Fourdrinier Pits - Cyclones - Scrubbers - Conveyor Tunnels - Acid Pits - Sandhoppers - Stacks - Dams - Bridges

CHEMICAL RESISTANCE:

Gasohol	100 deg. F.	Good, only slight discoloration after 4 months.
Lactic Acid	10% @ 100 deg. F.	Good, only slight discoloration after 4 months.
Paper Mill Liquor	150 deg. F.	Good, only slight discoloration after 8 months
Sodium Hydrx	10% @ 100 and 150 deg. F.	Good, only slight discoloration after 8 months.
Sulfuric Acid	5%, 25%, 50% @ 100 and 150 deg. F.	Good, only slight discoloration after 8 months.

For additional chemical resistance, please consult the Parker Technical Department for your specific requirements.

PHYSICAL CHARACTERISTICS: Compressive strength, ASTM D695: 13,000 - 15,000 psi
Tensile strength, ASTM D938: 1,500 - 2,500 psi
Flexural strength, ASTM D790: 5,300 - 6,000 psi

FINISH: Smooth - Glossy

VOLUME SOLIDS: 100%

FLASH POINT: Not applicable

SUGGESTED THICKNESS: 1/8"

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

COLOR: Amber

PACKAGING: 1 unit - 3 batches

1 batch = 1 pint can (short filled) Part A, Activator

1/2 gallon can (short filled) Part B, Base

1 box, 16 pounds Part C, Aggregate

SHIPPING WEIGHT: 1 unit = 60 lbs.

USDA APPROVAL: Yes

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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 materials and 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 concrete for proper bonding: Sandblasting with fine sand and reduced pressure, shot blasting, scarifying or acid etch. 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 or NACE #2 with a 4 mil minimum anchor pattern or "tooth".

PRIMER: Mixture of 1 container Part A to 1 container Part B

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.

SERVICE TEMPERATURE: 325 deg. F. Dry heat

CURE TIME: Chemline 3600-HHC 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 occurs after 7 days at 70 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, and re-primed.

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

CAUTION: It is recommended that 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.