



**PROTECH 4000-HT**  
**HEAVY TRAFFIC**

**Technical Data**

**DESCRIPTION:** Protech 4000-HT is a heavy duty, chemical resistant epoxy monolithic floor surfacer specially designed for resurfacing and patching old and new concrete floors. It has excellent adhesion to concrete, steel and wood. Protech 4000-HT is many times stronger than concrete which gives added protection against impact, abrasion and wear. This three-component system hardens quickly to a sanitary non-shrinking, skid resistant floor.

**RECOMMENDED USES:** Factories - creameries - locker plants - canneries - bottling plants - bakeries - cheese manufacturing plants - breweries - meat packing plants - pulp and paper mills.

**CHEMICAL RESISTANCE:** Gasoline - Excellent, no affect after 20 day exposure. HCl, 10% at 75 deg. F. - Excellent, recommend clean up of spill within 8 hours. Lactic Acid, 8.5% at 75 deg. F. - Excellent, recommend clean up of spill within 8 hours. Nitric Acid, 10% at 75 deg. F. - Excellent, recommend clean up of spill within 8 hours. Sodium Hydrx, 10%, 20%, 50% at 75 deg. F. - Excellent, clean up of spill within 48 hours. Sulfuric Acid, 5% at 75 deg. F. - Excellent, recommend clean up of spills within 72 hours. Sulfuric Acid, 20% at 75 deg. F. - Excellent, recommend clean up of spills within 8 hours. For additional chemical resistance please consult the Parker Technical Department for your specific requirements.

**PHYSICAL CHARACTERISTICS:**

Compressive strength, ASTM C-579	10,000 - 11,500 psi
Tensile strength, ASTM C-307	1,400 - 2,200 psi
Flexural strength, ASTM D790:	4,000 - 5,000 psi
Flexural Modulus of Elasticity ASTM D-790	1.7 x 10 <sup>6</sup> psi
Abrasion Resistance ASTM D-4060, CS-17 wheel	0.18 gm max.wt.loss
Coefficient of Expansion ASTM E-831	2.0 x 10 <sup>5</sup> in/in ° C

**FINISH:** Non-slip, non-skid

**VOLUME SOLIDS:** 100%

**FLASH POINT:** Part A: 217 deg. F. Pensky Martens

Part B: 480 deg. F. Seta Flash

Part C: Nonflammable

**SUGGESTED THICKNESS:** 1/4"

**THEORETICAL COVERAGE:** 16 sq. ft.\* per batch at the recommended 1/4" thickness. \*Material losses during mixing and application vary and must be taken into consideration when estimating job requirements.

**COLORS:** Brown, gray and red

**PACKAGING:** 1 unit = 3 batches

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

1 gallon can (short filled) Part B, Base

1 bag (30 lbs.) Part C, Aggregate

**SHIPPING WEIGHT:** 1 unit = 120 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. A good bonding tooth is necessary. To provide this tooth prepare concrete by sandblasting, scarifying, shotblasting or acid etching. OLD CONCRETE - remove all weak or powdery concrete. Make sure all wax, dirt, grease and other contaminants have been removed. All surfaces must be completely dry before application. METAL SURFACES should be cleaned by solvent degreasing, followed by abrasive blasting to near white metal SSPC-10-70 or NACE #2 with a 4 mil minimum anchor pattern tooth.

**PRIMER:** Parker Probond primers. Consult with the Technical Department for your particular application.

**CHASING EDGES:** Whenever possible, cut or "key" the edges of the areas to be repaired approximately 1/2" deep with a masonry saw. Then trowel the mixture to a smooth transition to the adjoining floor. If the feathered edge method is used, taper the edges approximately 1-2 inches beyond the intended overlay area. For best results, seal the edges with Probond 61-CP to insure a more positive bonding tooth to the surface being repaired.

**MIXING:** Empty the content of Part A into Part B, thoroughly stir for two minutes. Empty mixture into mixer pail or mortar box, draining can for about 1/2 minute. Start mixer slowly and add Part C. Mix for approximately five minutes.

**POT LIFE:** The working life of this mixture is 25-30 minutes. Pour mixed batches as soon as blended.

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

**APPLICATION:** Pour the mixed batch onto the floor in a ribbon approximately 10" wide. Spread with a clean trowel, applying pressure to force the mortar into the floor surface. Finish each batch as you go. If the time lapse between batches is too long, the trowel may become sticky causing the mortar to pull, creating a porous surface. Keep the trowel clean by wiping with a cloth saturated with P34T Thinner.

**CURE TIME:** 24 hours light traffic -- 72 hours heavy traffic.

**SEALING:** When the ultimate in chemical and abrasion resistance is necessary or an easy to clean, sanitary surface is a must, Protech 4000-HT can be sealed with a clear or pigmented Protech 4400-SLS. As soon as the surface is cured enough to walk, on use a clean trowel, squeegee or roller, and apply a liberal coat of Protech 4400-SLS.

**CLEAN UP:** Protech 4000-HT cured or hardened will stick to practically anything and is almost impossible to remove. Clean all tools and spills immediately with P34T Thinner or hot soapy water.

**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.