



PROTECH 4700-DHT SYSTEM

Technical Data

Decorative Heavy Traffic

DESCRIPTION: Parker 4700-DHT combines decorative looks with excellent chemical and wear resistance characteristics. Its surface provides a moderate degree of slip resistance while remaining resistant to staining from chemical attack and is durable enough to handle moderate to heavy traffic, as well as withstand rigorous regimen of cleaning cycles. It is ideal for resurfacing badly worn concrete surfaces. Its seamless surface has no joints or seams to harbor dirt and bacteria and has excellent resistance to attack from most acids and alkalis.

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, shot blasting 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 or tooth.

PRIMER: Parker Probond Primers. Consult with Parker 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 one to two 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.

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 degrees F. to 85 degrees F. for at least 48 hours before application. Do not apply when surface temperature is below 50 degrees F.

PHYSICAL CHARACTERISTICS:

Compressive strength, ASTM C-579:	8,000 - 10,000 psi
Tensile strength ASTM C-307:	1,000 - 2,000 psi
Flexural strength ASTM D-790:	2,000 - 4,300 psi
Flexural modulus of Elasticity ASTM D-790:	2.0 x 10 ⁶ psi
Abrasion resistance ASTM D-4060, CS-17 wheel:	0.1 gm max. wt. loss
Coefficient of expansion ASTM E-831:	3.5 x 10 ⁵ in/in° C

PACKAGING: 1 unit = 3 batches

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

1 gallon can (short filled) Part B, Base

1 box (30 lbs.) Part C, Aggregate

Topcoat = 1 one-half gallon can Part A (5 lbs.)

1 gallon can Part B (9 lbs.)

Topcoat available in quarts, gallons, and five gallon pails.

COLORS: Available in 3M blended colors or custom blends.

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MIXING: Empty the contents 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 three minutes.

APPLICATION: Pour the mixed batch onto the floor in a ribbon approximately ten inches 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.

CLEAN UP: Protech 4700-DHT 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.

UNDERCOAT: Allow 4700-DHT underlayment to cure a minimum of eight hours at 70 degrees F. before applying decorative overcoat. All surface imperfections such as trowel marks must be removed by grinding as necessary. Next, 4700-DHT undercoat is mixed and poured onto the floor in the form of a ribbon and spread evenly over the floor surface using a rubber squeegee, and followed by rolling with a short nap roller. Broadcast (sprinkle) the 4700-DHT decorative aggregate Part C onto the surface as the undercoat liquid is being applied, being sure to leave a wet edge of 6 to 12 inches of liquid to allow for further 4700 undercoat liquid applications to be “feathered in”. Allow six to eight hours to cure.

SEALING: Sweep off excess Part C decorative aggregate and vacuum entire surface. After sweeping and vacuuming the excess aggregate, mix the liquids of Parker 2405-WCE and apply them to the surface using a rubber squeegee, followed by rolling with a short nap roller. For a smooth finish, apply the 2405-WCE using a 1/4” v-notched serrated trowel or squeegee, followed by porcupine rolling to release any entrapped air created during application.

FINAL SEAL: Allow 4700-DHT system to cure approximately 24 hours at 70° F. and 50% R.H. Apply Parker 1175-APU using a lamb’s wool applicator, or a 1/4” or less nap roller. This sealer will give a very high gloss finish and also provide the maximum in abrasion resistance. Allow the finished system to cure at least 24 hours before subjecting to moderate traffic, and at least 36 hours before heavy traffic.

CAUTION: This product may be irritating to the eyes and skin. Avoid prolonged contact with the liquid components A and B and keep the mortar from touching tool handles and clothes. Use coveralls, goggles, rubber gloves, or protective cream when working with this material. Always wash thoroughly with soap and water after use. Should accidental eye contact occur, wash thoroughly with water and consult a physician immediately.

WARRANTY: Manufacturer warrants only that this product conforms to its standards and in no event shall liability exceed the purchase price. Manufacturer’s only obligation shall be to replace such quantity of the product proved to be defective. User shall determine the suitability of the product for his intended use, assume all risks and liability in connection therewith.