

Concrete Surface Care

A Preparation and High Gloss Solvent-Based Polyurethane Coating System for Concrete Surfaces

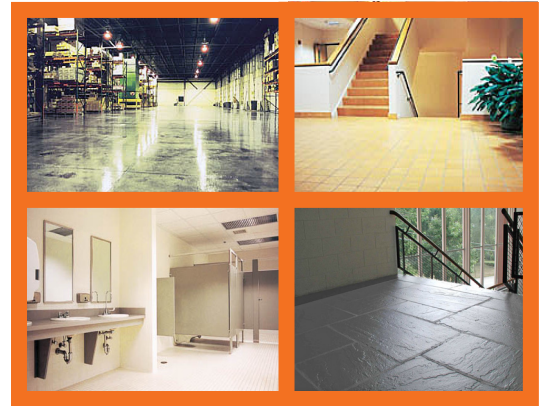
This program is specifically designed to clean and prepare all uncoated concrete surfaces, for the application of Perma's high performance solvent-based polyurethane finish, Polystar 350. The powerful, deep cleaning action of Deep Impact makes it ideal for cleaning areas that experience severe soil conditions, comprised of greases, oils, and heavy protein soil build-up, helping to ensure good adhesion. Etching with Prepare chemically abrades the concrete, creating a profile that further enhances the bond of Polystar 350. Polystar 350 provides a high gloss protective finish with the durability required for high traffic commercial and industrial environments.

Floor Preparation and Application Products

DEEP IMPACT

Heavy Duty, Chlorinated, Foaming Degreaser For Concrete, Stone and Ceramic Tile

DEEP IMPACT is a powerful, chlorinated, foaming degreaser formulated to dissolve and suspend grease, oil, industrial lubricants, automotive and aircraft fluids and the heaviest common and protein soils. No other cleaner works faster or more effectively to clean even the heaviest soils from concrete, ceramic tile, brick, and all natural and manufactured stone surfaces. Fortified with chlorine to brighten cement and grouting **DEEP IMPACT** is recommended for use in lobbies, restaurants, institutional kitchens, food processing plants, restrooms, and manufacturing and work areas. **DEEP IMPACT** contains no abrasives, is fast-acting, nonflammable, and biodegradable.

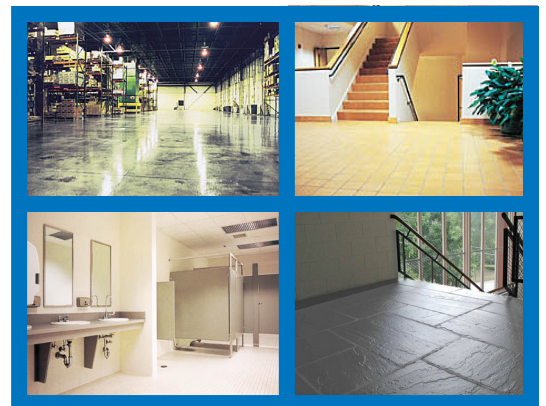


Product #156

PREPARE

Acid Etching And Bleaching Treatment For Concrete, Ceramic Tile And Stone

Prepare is a concentrated formulation containing Hydrochloric (Muriatic) Acid, detergents, and surfactants for use in preparing concrete, terrazzo, and unglazed stone or ceramic tile flooring for coating with water or solvent-based sealers. Prepare's powerful chemical reaction dissolves ground in dust and dirt, opening up the pores in smooth mineral surfaces and insuring proper adhesion characteristics between the flooring and sealer. This treatment can also enhance slip resistance characteristics on particularly smooth masonry or stone surfaces.



Product #111E

POLY-STAR 350

350 Gram/Liter VOC

Polyurethane Concrete Finish

Poly-Star 350 offers the performance advantages of rapid build, reasonable dry time, superior durability, and high gloss found in Poly-Star 50, in a low VOC formulation. Poly-Star 350 is formulated for use on all interior concrete floors. Poly-Star 350's full body provides rapid film build that dries under normal conditions in approximately 7-9 hours to a hard, glossy finish that provides excellent resistance to abrasion, wearing, and chemicals. This product complies with more stringent 350 gram/liter VOC regulations.



Product #551C

Concrete Surface Care

Floor Preparation and Application Procedures

Step 1 - Deep Impact For Heavy Duty Cleaning Or Degreasing Of Ceramic Tile

Heavy Duty Degreasing Of Concrete Or Ceramic Tile: Dilute one part **DEEP IMPACT** with 10 parts water (12.8 ozs. per gallon). Apply diluted solution liberally with a plastic watering can or mop. Let the solution stand for approximately five minutes, then scrub the application area with a low speed buffing machine (175-350 Rpm) or automatic scrubber equipped with a scrubbing brush, or by hand with a deck brush. Pick the solution up with a wet vac or mop. Deep Impact is a foaming degreaser so a small amount of defoamer may need to be added to the recovery tank to reduce foaming. Flood rinse the cleaned area with clean water, then pick up the rinse water with a wet vacuum or automatic scrubber.

Routine Degreasing Or Cleaning: **DEEP IMPACT** may be used at a lower concentration of between 1 part Deep Impact to 64 parts water (2 ozs. per gallon) and 1 part Deep Impact to 16 parts water (8 ozs. per gallon) for routine degreasing or cleaning.



Step 2- Use Prepare To Open Pores And Whiten Grout Prior To Applying Stone Seal

CAUTION: This is a concentrated product formulated for professional use only!

Safety glasses, gloves, and protective footwear should be worn at all times during application. Provide for adequate ventilation of fumes which may be generated during application. In enclosed areas with limited ventilation a respirator may be necessary. High concentrations of vapor due to limited ventilation can also cause flash rusting of stainless steel. Do not mix this product with other chemicals. NOTE: Prepare should be used with extreme caution on polished surfaces and marble, terrazzo, limestone, or other calcium containing materials. Prepare will remove the gloss from polished surfaces and will etch and possibly damage soft or high calcium content stones.

Uniformly dampen the area to be treated with clean water. For light to moderate soil or staining on ceramic tile or stone dilute Prepare 1 part cleaner to 3 parts cold water. For heavy soil or staining, or for etching concrete prior to coating Prepare may be concentrated up to 1 part cleaner to 1 part cold water. **NOTE:** concentrations of Prepare at 1:1 or higher can cause efflorescence in grout lines which should be removed by scrubbing with hot water and a deck brush or a 175-300 Rpm buffing machine equipped with a brush prior to sealing. Apply solution to the floor using a plastic watering can, then spread evenly using a deck brush or synthetic fiber mop. Allow the solution to work for approximately 5 minutes or until white foaming action ceases. Scrub the application area with a buffing machine equipped with a staggered bristle zim-grit or nylo-grit type brush or deck brush, to assist in thorough cleaning. Completely remove the etching solution, preferably with a wet vacuum. Rinse by applying clean water liberally with a watering can or mop. Scrub briefly to agitate rinse water. Remove rinse water with a wet vacuum or mop. Thoroughly rinse all application equipment with clean water.

Coverage: approximately 250 ft²/gallon of use solution.



Step 3- Coat Floor With Polystar 350

APPLICATION TO BARE CONCRETE: Floor surface temperature should be at least 65°F prior to application of finish. Areas with soaked in oil, automotive fluids or grease should be spot cleaned first with #820 Citru-Gest. Scrub surface with #156 Deep Impact or #255 Wood Glow to remove regular concentrations of light oils soils and dirt. Lightly dampen the surface with clean water then etch with #111E Prepare. Allow Prepare to work until foaming stops then rinse thoroughly with clean water. When thoroughly dry (12-24 hours), apply Poly Star 350 in a *thin, even coat*, with a lamb's wool, T/Drag Bar or other appropriate applicator. The initial coat will yield 400-500 square feet per gallon coverage. Allow finish to thoroughly dry, minimum 12 to 16 hours under normal drying conditions. Apply no more than one coat per day. Cold floor temperatures or high humidity can significantly increase drying time. Under warm, low humidity conditions, floors may be opened to light traffic after 72 hours. Adverse drying conditions will extend the amount of time necessary before opening the floor to traffic. Complete curing requires 2 weeks.

PREVIOUSLY SEALED FLOORS IN GOOD CONDITION: Clean heavily soiled floors thoroughly per previous instruction. Allow the floor to dry, then screen with an 100-120 grit screen disk. Wet screening using a solution of #255 Wood Glow diluted 4 ounces per gallon of water, will reduce dusting and clean the floor. Floors may also be dry screened. Dry screening can be more effective at removing deeper scratches and heavy oxidation. Thoroughly sweep or vacuum the floor to remove wood dust and dirt. Tack rag the floor with Waterless Cleaner to remove any fine dirt or dust left from screening.

APPLYING THE FINISH: Apply finish only after floor is thoroughly clean and dry. Apply finish with a lamb's wool applicator, brush or weighted drag/t-bar. Pour finish into an applicator pan if applying with a lamb's wool or brush, or a plastic watering can for application with a drag/t-bar. Apply finish in a *thin*, uniform coat. Generally, one coat is sufficient to provide a positive appearance and performance in recoating procedures. Under warm, low humidity conditions allow a minimum of 12-16 hours between coats. Apply no more than one coat per day. Cold floor temperatures or high humidity can significantly increase drying time. Under warm, low humidity conditions, floors may be opened to light traffic after 72 hours. Adverse drying conditions will extend the amount of time necessary before opening the floor to traffic. Complete curing requires 2 weeks.

For comprehensive application information, please see product specification sheet.

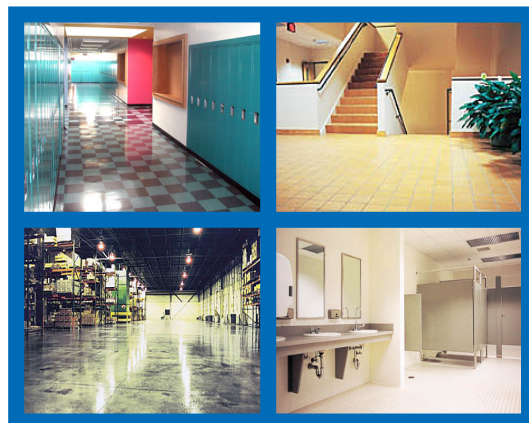
Concrete Surface Care

Floor Cleaning and Maintenance Products

SUPER BLUE

Premium Quality, Cleaner/Degreaser/Deodorizer

A super-concentrated, versatile, all purpose cleaner/degreaser for the true maintenance professional. Super Blue cleans chemically, economically, and quickly, virtually any type of soil, on any surface, in institutional, industrial, transportation, hospital, and food service operations. Super Blue quickly and effectively suspends and removes calcium and sodium chloride deposits left from ice melting compounds. Super Blue cleans without rinsing even in hard water, and will not harm existing finishes. Perma's highest quality all purpose cleaner.



Product #129

TRACTION CLEAN

Slip Resistant Cleaner/Degreaser

Traction Clean is formulated to provide the cleaning and soil suspension properties necessary to effectively clean and maintain positive slip resistant characteristics in restaurant and food service areas, restrooms, nursing homes, hospitals, and light industrial manufacturing facilities where food, protein-based soils, light oils, and dirt can cause slippery conditions. Detergents and surfactants effectively break down and suspend soils, removing the potential cause of many slippery floors. Special additives increase the coefficient of friction beyond the level normally inherent in the existing floor surface. Extensive laboratory and field testing on various types of flooring (including resilient tile, ceramic and stone tile, sealed wood, and concrete) has demonstrated this product's ability to raise the coefficient of friction readings beyond those required by the Occupational Safety and Health Administration and the 0.6 SCOF recommended by the National Floor Safety Institute, ANSI and Americans With Disabilities Act.



Product #100

GREASE CUTTER

Low Foam, USDA Compliant, Non-Corrosive, Food Service Degreaser

Although effective, highly alkaline, corrosive degreasers present safety issues that are becoming of increasing concern to industrial hygienists responsible for employee safety, and the maintenance personnel that use them. GREASE CUTTER offers a safer, yet effective alternative for cleaning and degreasing the stubborn protein based soils, commonly encountered in meat and food processing facilities, commercial kitchens, and food storage areas. Formulated with water miscible solvents and powerful detergents, GREASE CUTTER will readily dissolve animal fats, fish slime, meat residues, blood, oils and other protein based and hard to remove soils. GREASE CUTTER's moderate foaming action effectively suspends soils, yet allows it's use in autoscrubbers or pressure washers without overflowing recovery tanks or generating excess foam. Non-corrosive and biodegradable GREASE CUTTER provides the aggressive cleaning power needed in commercial food handling facilities, without the potential for chemical burns and related health considerations associated with highly alkaline degreasers. GREASE CUTTER may be used on all metal, concrete, ceramic tile, stone, formica, rubber, and painted surfaces.



Product #150

Concrete Surface Care

Floor Cleaning and Maintenance Procedures

Step1a - Clean Floors With Super Blue Cleaner/Degreaser

LIGHT CLEANING: Use at a concentration of 1 ounce per gallon of water (1:128) for damp mopping floors, cleaning walls, fixtures, formica, skylights and routine spray cleaning.

MEDIUM CLEANING: Dilute to 2 ounces per gallon of water (1:64) for cleaning concrete floors, ceramic tile, bathroom fixtures, toilets, airfilters, refrigerators, mats, runners, or anywhere there is moderate soil build-up.

HEAVY DUTY CLEANING: Dilute at 4 ounces per gallon of water (1:32) for cleaning commercial kitchen floors, range hoods, exhaust fans, shower stalls, cars, buses, trucks, or any heavy protein-based soils, grease or oils.



Step1b - Traction Clean to Clean Or Degrease And Increase Slip Resistance

Dilute Traction Clean with warm water at the following dilutions, depending on the degree and type of soil to be removed:

Light Duty Cleaning: 8 ounces Traction Clean per gallon of water (1:16).

Medium Duty Cleaning: 12 ounces Traction Clean per gallon of water (1:10).

Heavy Duty Cleaning: 16 ounces Traction Clean per gallon of water (1:8).

Apply with either an autoscrubber or by damp mopping. In order to avoid redepositing grease and protein soils when damp mopping, a two bucket system in which one bucket contains the Traction Clean and one bucket is used for soiled solution, should be used. Heavy deposits of protein soil, dirt or grease may be addressed by applying Traction Clean at 16 ounces per gallon using a pressurized sprayer, watering can, or mop. Scrub the area with a stiff bristled brush or buffing machine, remove the soiled solution with a wet vacuum or mop, and finish the cleaning procedure by damp mopping. Allow the floor to dry. Do not rinse.



Step1c- Grease Cutter For Cleaning Or Degreasing Of Moderate Soil Concentrations

For routine cleaning of floors, walls, food preparation tables or other hard surfaces in food service areas, dilute 1 part Grease Cutter with 32 parts hot or cold water (4 ounces per gallon). Diluted solution may be applied with a pressurized sprayer, pressure washer, automatic scrubber or mop. Allow the solution to work for several minutes then agitate with a brush, scrubbing machine, or automatic scrubber. Remove the soiled solution with a wet vacuum, automatic scrubber or mop, then rinse the surface thoroughly with clean water, and allow it to dry.

Dilution ratios of Grease Cutter may be increased or decreased; 4 ounces per gallon (1:32) for routine cleaning to 12 ounces per gallon (1:10) for heavy duty degreasing.



Perma Incorporated • 605 Springs Road, Bedford, MA 01730

Tel: (978) 667-5161 • Fax: (978) 670-5797

E-mail: info@perma.com • Website: www.perma.com