



# HT Clear

## HIGH TRAFFIC POLYURETHANE TOPCOAT

### PRODUCT DESCRIPTION AND USE

HT Clear is a two component, high solids aliphatic polyurethane. This product offers a remarkable combination of performance properties not found in other polymer coatings. HT Clear produces protective films which are hard, flexible and very impact resistant. These coatings feature high abrasion and scratch resistance, exterior durability, easy soil release and excellent resistance to a broad range of chemicals. When properly installed at 8 to 16 mils, HT can out wear normal floor coatings ten times or more. HT Clear provides maximum cleanability and stain resistance when used as a finish coat in color chip flooring or epoxy-quartz flooring. This coating is ideally suited for heavy duty industrial applications, warehouses, over epoxy and urethane mortars, clean-room floors, automotive repair facilities, aircraft hangars and other high wear areas requiring resistance to fuels and chemicals. When used as a finish coat in wall coating systems, anti-graffiti properties are greatly enhanced.

### Colors

Clear and 16 standard colors. available in high gloss or satin.

### Limitations

- Do not use on unprimed substrate.
- Use of satin material requires the addition of accelerator during mixing.
- Slab and ambient temperature above 45° F.

### TECHNICAL DATA

#### Physical Properties

Mixing Ratio, by Volume .....2A-1B  
 Solids Content, by Volume (Clear)..... 65%

#### Dry Times (77 degrees)

Dry to Touch..... 4-6 hours  
 Recoat ..... 10-12 hours  
 Light Traffic.....24 hours  
 Full Cure ..... 7 days

Higher temperatures will shorten cure time and lower temperatures will lengthen cure time.

## Performance Properties

Gloss (60 degrees).....	90-95
Hardness (ASTM D-2240 @ 75°F) .....	72
Abrasion Resistance (ASTM D-4060).....	51 mg. loss
Flexural Strength (ASTM C-580).....	5,350 psi
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Elongation (ASTM D-638).....	18%

## CHEMICAL AND STAIN RESISTANCE (ASTM D-1308 24 HOUR IMMERSION)

Urine .....	no affect
Blood.....	no affect
Whiskey .....	no affect
Black Ink.....	no affect
Brake Fluid.....	no affect
Gasoline .....	no affect
Skydrol B-4.....	no affect
Hydraulic Fluid #83282 .....	no affect
Mineral Spirits .....	no affect
Xylene.....	no affect
MEK.....	film softened
30% Sodium Hydroxide.....	discoloration
25% Hydrochloric Acid .....	no affect
25% Sulphuric Acid.....	no affect
25% Acetic Acid.....	no affect
25% Nitric Acid .....	no affect

## GENERAL INFORMATION

### Moisture Vapor Emissions/Alkalinity Precautions

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission and related high levels of alkalinity that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions or alkalinity are present before applying any coatings. These test kits are available from Sundeck Products USA, Inc.. Sundeck Products USA, Inc. and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity.

### Surface Preparation

HT Clear is intended to be applied over primed or previously coated surfaces. Do not apply directly to concrete. Surface must be absolutely clean, dry and free from all dirt, wax, oil, chalk, incompatible paint or detergent film. Fully cured, previously coated surfaces must be cleaned and sanded lightly with 80-100 grit sandpaper or otherwise mechanically abraded before recoating. If multiple coats of High Traffic HT are applied, apply additional coats as soon as possible. If more than 24 hours has elapsed or the coating cannot be indented with a fingernail, lightly sand surface to insure intercoat adhesion.

## **Mixing Instructions**

If a slip resistant finish is required, the appropriately sized aggregate can be pre-mixed with the A & B components or it can be broadcast into the previous coat.

Mix only that amount of material that can be used in a 2 hour period at 77°F. Higher temperatures and the addition of accelerator will reduce work time. In hot weather, mix smaller batches. If using the pigmented system, premix part A well before adding part B. Combining ratio is 2 part A to 1 part B. **Proportion the amounts carefully and mix for two full minutes using a slow speed drill, scraping the bottom and sides of the mixing container.** Material is normally applied as received, but may be thinned with up to 15% MEK. Always thin the satin material to achieve a low application viscosity. Avoid contamination with moisture. Reseal partially used containers completely after use.

## **Application Recommendations**

HT Clear may be applied by brush, roller or airless spray. Apply at 275-350 sq. ft. per gallon with 3/8" or 1/2" nap roller as a finish coat over primed concrete. May be applied up to 200 sq. ft. per gallon as a fill coat in aggregate-filled flooring systems using a rubber squeegee and back rolling with a 3/8" nap roller. If using the satin version of this material, it is very important to achieve a uniform application rate of 300-350 sq. ft. per gallon. Heavier film thicknesses will be glossier, thinner films will be flatter.

## **Handling Precautions**

Material is combustible. Extinguish all flames, pilot lights and electric motors until all vapors are gone and the coating is hard. The vapor is harmful. Use only with adequate ventilation/or appropriate cartridge-type respirator. Avoid contact with skin; wear protective gloves. Read Safety Data Sheet before using.

## **Slip and Fall Precautions**

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Sundeck Products USA, Inc. recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Sundeck Products USA, Inc. or its sales agents will not be responsible for injury incurred in a slip and fall accident.

## **WARRANTY INFORMATION**

Sundeck Products USA, Inc. guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. SUNDECK PRODUCTS USA, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Sundeck Products USA, Inc. shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Sundeck Products USA, Inc. shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.