



SunClear ♦ HT Clear

(Solvent Base)

POLYURETHANE

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. A special accelerator is available when rapid project turnaround is required. HT Clear has been designed as a high performance top coat in various protective coating and seamless flooring applications. It 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 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.

Chemical Composition

Saturated polyester cross linked with aliphatic polyisocyanate.

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.

TECHNICAL DATA

Physical Properties

Mixing Ratio, by Volume	2-1
Solids Content, by Weight (Pigmented)	73.5%
Solids Content, by Volume (Pigmented)	62.5%
Solids Content, by Weight (Clear).....	63.5%
Solids Content, by Volume (Clear).....	58.5%
V.O.C., (Pigmented)	420 grams/liter
Viscosity, cps (77 degrees)	500 average

Pot Life (77 degrees, 1 quart mass)2 hours

Pot Life (95 degrees, 1 quart mass) 1 hour

Pot Life is reduced by increasing temperature and/or mass

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

Gloss (satin material, 60 degrees)..... 50-60

Hardness (Sward)..... 30

Tabor Abrasion (1000 gm. load 1000 cycles, CS 17 wheel) 34 mg. loss

Flexibility (ASTM D-222)..... passes 1/8 inch

Impact Resistance (ASTM D-2794) ..passes 160 inch-pound direct and reverse

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

50% Sodium Hydroxide..... no affect

25% Hydrochloric Acid no affect

25% Sulphuric Acid no affect

25% Acetic Acid no affect

25% Nitric Acid film blistered

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

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 films will be glossier, thinner applications 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 Material 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.