



StarShield PC

PRODUCT DESCRIPTION

StarShield PC is a 1-component water-borne polycarbonate polyurethane protective coating. It retains exceptional UV stability for exterior applications while delivering superior chemical, abrasion resistance and resists hot tire pick-up. This non-hazardous, no odor material may be pigmented to any color or used strictly as an optically clear clearcoat where it may be used for numerous type substrates such as concrete, wood floors, masonry, etc. A 10-12 mil wet applied coating will dry in about 20 minutes at 72°F, 65%RH, Dry times will vary relative to temperature & humidity. If more thickness is required, a second coat may be applied after full cure of previous coat. It is available in High Gloss or Matte finish. StarShield PC has good adhesion properties to concrete, wood, PVC and fiberglass, ABS and aluminum with proper preparation, please consult Star Polymers.

StarShield PC PHYSICAL PROPERTIES

PROPERTY	ASTM METHOD	PC GUARD
% SOLIDS	D2369,D2926-80	38-40
TENSILE STRENGTH (PSI)	D412	2790 +/- 100
HARDNESS, PENCIL	D3363	2H
ELONGATION, AT BREAK	D412	104% +/-20
GLOSS (UNPIGMENTED)	D523	90 +/-2
VISCOSITY (CPS)	D2270	30-100
ABRASION (C17)	D4060	<0.5 MG/1000 CYCLES

PACKAGING

StarShield PC packaging: Totes, Drums, 5 gal Pails.

HEALTH AND SAFETY

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

SURFACE PREPARATION

Substrates must be fully cured and cleaned prior to primer application. The cleaning operation must not leave any residual detergents, acids, alkali or other contaminants. Concrete flooring should be prepared with shot blasting, diamond grinding and/or machine sanding or scoured clean using machine abrasive pads, depending on severity of concrete surface condition. Surface Preparation ICRI Guideline No. 310.2R (CSP 2 to CSP 3), depending on concrete condition. All detergents and cleaning fluids must be thoroughly rinsed with clean water and then dried prior to coating operation. When using this material for coating steel, substrate should be shot blasted to an SSPC 4-6 mils profile. After shot blasting, the substrate should be dust free and dry.

There should be no visible rust prior to coating. This material should be applied within 45°F to 100°F and below 85%RH. Application thickness is approx. 10-12 mil wet. Additional coats may be applied after the underlying coat has thoroughly dried. When using PC GUARD for coating steel, the substrate should be primed with our DTM (Direct to Metal Primer). Coverage based on 12 mils is 250 sq. ft. / gal.

StarShield PC CHEMICAL RESISTANCE CHART

(SCALE OF 1-5; 5 = No Change)

IN ACCORDANCE ASTM D1308	StarShield PC
10% HCL	5
10% ACETIC	5
ETHANOL	5
MEK	4
MOTOR OIL	5
DIESEL	5
GASOLINE	5
BLEACH	5
IPA	5
RED WINE	5
COFFEE	5
WINDEX	5
ACETONE	3
MUSTARD	5
KETCHUP	5

WARRANTY

THE INFORMATION HEREIN IS BELIEVED TO BE RELIABLE, BUT UNKNOWN RISKS MAY BE PRESENT. STAR POLYMERS WARRANTS ONLY THAT THE MATERIALS SHALL BE OF MERCHANTABLE QUALITY. THIS WARRANTY IS IN LIEU OF ALL OTHER WRITTEN OR UNWRITTEN, EXPRESSED, OR IMPLIED WARRANTIES. STAR POLYMERS EXPRESSLY DISCLAIMS ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR FREEDOM FROM PATENT INFRINGEMENT. ACCORDINGLY, BUYER ASSUMES ALL RISKS WHATSOEVER AS TO THE USE OF THESE MATERIALS. BUYER'S EXCLUSIVE REMEDY AS TO ANY BREACH OF WARRANTY OR NEGLIGENCE CLAIM SHALL BE LIMITED TO THE PURCHASE PRICE OF THE MATERIALS. FAILURE TO STRICTLY ADHERE TO RECOMMENDED PROCEDURES SHALL RELIEVE STAR POLYMERS OF ALL LIABILITY WITH RESPECT TO THE MATERIALS OR THE USE THEREOF.

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