



BallisticSkin

Two-Component 100% Solids Super-Polymer

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

BallisticSkin is an ultra-tough, energy absorbing, super-polymer skin that is used primarily for ballistic proofing and shrapnel mitigation. BallisticSkin is capable of absorbing very high impact energy and can withstand firepower from 9mm, 40 and 45 caliber bullets as well as 44 magnum. BallisticSkin is extremely tear resistance and can withstand high heat capacities whereby demonstrating ultimate toughness. BallisticSkin may be used to strengthen a variety of military grade substrates used for transportation vehicles, armament assemblies and structural building reinforcement. Generally, BallisticSkin super-polymers are used in some type of ballistic shielding applications. These materials may be applied to many types of structural substrates which include high strength steel, 6061 Aluminum, high-strength composites, wood laminates, reinforced masonry and concrete. These unique materials provide extreme protection for safe-houses, personnel vehicles, government buildings, armed outposts and special aircraft. Sprayed thickness of BallisticSkin may vary depending on substrates applied to and threat level necessary. BallisticSkin performs best when the materials has time to age and fully cure. BallisticSkin samples that have been aged for 30 days or more perform exceptionally well, whereas testing on freshly sprayed materials indicated poor results. For specific applications, please contact our technical support group.

TECHNICAL APPLICATION DATA

Physical application of BallisticSkin requires a 2-component high pressure liquid pumping machine. Surfaces must be prepped for cleanliness and use of an adhesion primer is recommended to acquire superior adhesion, which is vital to contributing to the total energy absorption of the system. Application temperature ranges from 40°F to 150°F. Functional operation temperature ranges from -20°F to 250°F. Surface appearance is normally glossy and smooth.

BallisticSkin may be color-tinted if desired. Refer to SDS for material and safety standard procedures.

BallisticSkin PHYSICAL PROPERTIES

Hardness	ASTM D785	55-60 D
Tensile Strength	ASTM D412	3750 psi
Elongation	ASTM D412	350%
Water Absorption (24 hr.)	ASTM D570	0.25%
Moisture Vapor Transmission	ASTM E96	0.24 perms
Taber Abrasion CS17	ASTM D4060	<30 mg/1k cycle
Tear Strength	ASTM D624	690 lbs./lin. in.
Gel Time	Time	5-15 sec.
Mix Ratio	PBV	1A – 1B

ADHESION RESULTS

Typical Substrates per ASTM D-4541 Elcometer		
Concrete*	>300 psi	Cohesive failure; excellent bonding
Steel*	>1000 psi	Excellent bonding
Composite Lamination*	>1000 psi	Saturated; excellent bonding
*All substrates primed with SuperSkinSystems' Primer 28		

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.

WARRANTY

THE INFORMATION HEREIN IS BELIEVED TO BE RELIABLE, BUT UNKNOWN RISKS MAY BE PRESENT. SUPERSKINSYSTEMS, INC., 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. SUPERSKINSYSTEMS, INC., 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 SUPERSKINSYSTEMS INC. OF ALL LIABILITY WITH RESPECT TO THE MATERIALS OR THE USE THEREOF.



www.superskinsystems.com

Copyright© SuperSkinSystems™, Inc. 2015
 100 Petty Road, Suite C | Lawrenceville, GA 30043
 PH: 404-216-4711 | 404-229-8343 | 404-299-1505



BallisticSkin

Two-Component 100% Solids Super-Polymer



www.superskinsystems.com
Copyright© SuperSkinSystems™, Inc. 2015
100 Petty Road, Suite C | Lawrenceville, GA 30043
PH: 404-216-4711 | 404-229-8343 | 404-299-1505