



BEYOND FLOORS...

Bulletproof V

TROWELABLE CEMENTITIOUS POLYURETHANE
FOR VERTICAL APPLICATION

PRODUCT DESCRIPTION

Bulletproof V is a three component cementitious polyurethane system. It is a pigmented, trowel applied floor system or wall system. **Bulletproof V** is designed to withstand aggressive chemical and thermal attack while providing abrasion resistance. It is designed specifically for use with **Bulletproof EG** and **Bulletproof STS** polyurethane flooring in order to maintain the same standards of resistance to abrasion and chemical attack. This system is typically installed at 3 to 6 mm. (1/8 to 1/4 in.) thickness.

BENEFITS

- Odorless, Non-toxic, Non-tainting
- Pre-measured unit for easy handling and mixing
- Easy application
- Meets Canadian Food Inspection Agency standards
- Superior Adhesion
- Superior Chemical Resistance
- Excellent performance under thermally induced stresses such as steam cleaning
- Easy Maintenance
- No ventilation required
- Thermal Shock Resistant
- Self-extinguishing
- Resistant to fungi and to mold growth
- Can be applied on to 7-10 days old concrete.

COLORS

Bulletproof V is available in eight (8) standard colors :
Light Gray, Steel Gray, Charcoal, Sky Blue, Deep Blue, Tile Red, Green and Sandalwood

TYPICAL USES

Bulletproof V is used to form chemically resistant coving. It is used in combination with **Bulletproof EG** or **Bulletproof STS** to provide a totally seamless floor / wall transition. When used in wet environments or high pressure washing areas, URECO V should be top coated with **Bulletproof TC** or **XTC**. Typical areas of application:

- Chemical Processing
- Food Processing Areas
- Cook / Chill Areas
- Bottling Areas
- Sanitize / Wash Areas
- Plant Vehicle Aisles

TECHNICAL INFORMATION

Colors	8 standard colors
Cure Time @ 70°F	
Foot traffic	6-8 hours
Light wheel traffic	8-10 hours
Full service	12-16 hours
Mix Ratio (by volume)	3 component kit Part 1 (resin) Part 2 (hardener) Part 3 (aggregate)
Coverage	A unit will yield 25-30 lin. feet at 4 inches high 16-20 lin. feet at 6 inches high
Pot Life @ 77°F	20 minutes
Service temperature	-120° F to 220° F (live steam) Intermittently 260 °F
Toxicity	Non-toxic Odorless No ventilation required

PHYSICAL PROPERTY

TEST METHOD

RESULT

Adhesion to concrete	> 400 psi, concrete fails before loss of bond	
Abrasion Resistance Taber H 10 Wheel 1000 GM Load 1000 Cycles	ASTM C-501	35 mg loss
Compressive Strength	ASTM C-579	7 000 psi
Flexural Strength	ASTM D-790	2 200 psi
Hardness (Shore D)	ASTM D-2240	85-90
Tensile Strength	ASTM D-638	1 000, psi
<p>- Pot life is shorter at higher temperature. Do not use below 5°C or above 30°C.</p> <p>- Before using any Bulletproof product, be sure the Safety Data Sheet (SDS) is read and understood.</p>		

BULLETPROOF RESINS

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SURFACE PREPARATION

Surface preparation is required. Substrate must be profiled, dry, clean, oil free, and sound. Use **Bulletproof** Degreaser to remove all oily contaminants (oils, greases and others). Remove any dust, laitance, dirt, curing agent impregnations, wax, foreign matter, coatings and others from the surface by an appropriate mechanical to achieve a profile equivalent to ICRI CSP2 like a grinder with dust free collector. Need proper bonding to the substrate. Call the Technical Department for preparation recommendation.

PRIMING

All surfaces must be primed with **Bulletproof P PRIMER** to assure a complete permanent bond to walls and transfer joints. **Bulletproof V** can be applied to the tacky primer.

MIXING

Premix the resin (part 1) to unify the color, then add the hardener (part 2), both should be added to a forced circulation pail mixer and pre-blended for approximately 30 seconds. Gradually add aggregate (part 3) until homogenous mix is attained (approximately 2 minutes). Mix full unit.

APPLICATION

Bulletproof V is applied using a steel coving trowel at 1/8 to 1/4 inch thickness. **Bulletproof** Covebase trowel 4" and 6" high sold separately. To be applied by licensed applicators.

CLEANING

This product is considered to be a low maintenance flooring solution; however, certain textures and service environments do require certain procedures. Please refer to the "Maintenance Recommendation".

STORAGE CONDITIONS

Bulletproof V must be stored in a dry cool place between **59°F** and **70°F**. Exposure of the aggregate (Part 3) to moisture or water will make the systems unreliable. Do not allow resins to freeze. The shelf life of this product is 12 months for part 1 (resin) and part 2 (hardener) and 6 months for part 3 (aggregate) from ship date in the original unopened container. Exposure of the hardener to water will lead to pressure build-up from carbon dioxide generation. Do not reseal containers contaminated with moisture. Do not store near open flame.

CHEMICAL RESISTANCE

This product is resistant to many common chemicals. Best results are obtained when top coated with **Bulletproof TC** or **Bulletproof XTC**. Please call the Technical Department for actual resistance to specific chemical/agents.

MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting, durable installation.

LIMITATIONS

Priming is required for maximum adhesion and ease of installation. This product is best suited for application in temperatures between **41° f** and **86° F**. Moisture content of substrate should not exceed 10%. Substrate must be clean, sound and dry. Protect substrate during application from condensation or any overhead leaks. If you have any questions, please contact the Technical Department.

CAUTION

Workers should wear protective clothing consisting of splash-proof goggles, impermeable gloves and, where exposure limits are exceeded, organic vapor respirators. Follow the Safety Data Sheet (SDS) for proper personal protective equipment to use when handling this product. Use only as directed.

KEEP OUT OF REACH OF CHILDREN.

IMPORTANT NOTICE

All statements, recommendations and technical information contained in this document are based on tests and information, which Bulletproof Resins believes to be accurate as of this date. The buyer should test this product before use. Bulletproof Resins assumes no obligation or liability for results obtained from the use of this product. The product and information herein are furnished at the buyers request and risk. Bulletproof Resins will not be liable for any direct, indirect, consequential, economic or any other damage whatsoever except to replace the product and or refund the purchase price to the purchaser.

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