Protective & Marine Coatings

INVISI-SHIELD
ANTI-GRAFFITI CLEAR

PART A	B65CJ2000	CLEAR
PART B	B60V2	HARDENER

Revised: August 1, 2017

PRODUCT INFORMATION

5.17

PRODUCT DESCRIPTION

INVISI-SHIELD ANTI-GRAFFITI CLEAR is a graffiti resistant VOC compliant, two component, acrylic polyurethane designed for ease of application over concrete and masonry surfaces, as part of a waterproofing masonry sealer system, and existing high performance products as well as many other suitable substrates. This coating contains a UV block that extends the color and gloss retention of newly applied aliphatic polyurethane coatings. Invisi-Shield is formulated to become almost transparent or "invisible" when applied over suitable substrates and can be easily applied by brush, roller or spray.

PRODUCT CHARACTERISTICS

Finish:	Satin 15 +/- units @ 60°
Color:	Clear
Volume Solids:	50.27% ± 2% (mixed)
Weight Solids:	59.83% ± 2% (mixed)
VOC (EPA Method 24):	3.21 lbs./gl, unreduced 384 g/L, unreduced
Mix Ratio:	4:1

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils:	**4.0**	**6.0**
Dry mils:	**2.0**	**3.0**
~Coverage sq ft/gal*:	**265**	**400**

**Coverage listed above is theoretical, actual coverage on bare masonry will vary based on porosity of the substrate, average coverage will be between 150-250 sq/ft per gallon.*

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 3.0 mils wet @ 50% RH:

	@ 77°F
To touch:	45 minutes
To recoat (minimum):	18 hours
Full cure:	10 days

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

Pot Life:	6 hours
Sweat-in-Time:	none required

Shelf Life:	Part A: 36 months, unopened Part B: 24 months, unopened Store indoors at 40°F to 100°F.
Reducer:	
Below 80°F:	Xylol, R2K4
Above 80°F:	R7K132 Maximum of 10% by volume

RECOMMENDED USES

For use over prepared substrates in industrial environments, such as:

- Steel tanks
- Power plants
- Concrete abutments
- Slope paving & parapets
- Concrete piers
- Concrete barrier walls, rails, etc.
- Structural steel
- Concrete bridges
- Steel bridges
- Offshore platforms
- Columns & piles

PERFORMANCE CHARACTERISTICS

Freeze Thaw Resistance (100 cycles) - No evidence of cracking or adhesion loss after 100 cycles.

Accelerated Weathering-(ASTM G155 Xenon Arc Device (1500hrs) - No evidence of cracking or adhesion loss and <3deltaE color change after 1500hrs exposure.

Graffiti Removal- Graffiti is easily removed with recommended solvent.

May be applied over properly prepared steel or masonry and compatible substrates. Some suggested systems are as follows:

*Note: If applied directly to concrete or masonry surfaces,non-uniform gloss level, white staining (efflorescence) or darkening may occur. The use of a primer, sealer or densifier in most cases will limit darkening, efflorescence,unify gloss, and yield a more consistant film build.

** May be applied over Non-High performance Topcoats

Steel: (Protection System of Choice finished with)
1 coat Appropriate Aliphatic Polyurethane Coating
1 coat Invisi-Shield Anti-Graffiti Clear

Concrete or Masonry: (Pigmented)
1 coat B97 or B42 Series Stains / Sealers or Coatings
2 coats Invisi-Shield Anti-Graffiti Clear

Masonry: (Clear)*
1 coat HB-150, B97 series, or approved silane penetrating sealer
1-2 coats Invisi-Shield Anti-Graffiti Clear

Uniform and consistant film build must be achieved in order to obtain adequate graffiti protection.

**To determine compatibility over non-high performance topcoats apply a test patch of 2 coats of Invisi-Shield Anti-Graffiti Clear to a clean, dry, dull coating and allow to cure for 72 hours. Appearance should remain unchanged and coating film should pass 50 MEK double rubs with no softening of the coating film.

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SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

*Iron & Steel: SSPC-SP6
*Aluminum: SSPC-SP1
*Galvanizing: SSPC-SP16
*Concrete & Masonry: SSPC-SP13

Minimum cure is 28 days at 75 degrees F.
Ph before coating should be 6 to 10.

Previously Painted Surfaces

All surface contamination such as oil, grease, loose paint,mill scale, dirt, foreign matter, rust, mold, mildew, mortar, efflorescence and sealers must be removed to assure a sound bonding to the tightly adhering old paint. Glossy surfaces of old paint film must be clean and dull before repainting. Spot prime bare areas with the appropriate primer. Check for compatibility of the previously painted surface with the new coating by applying a test area. Recognize that any surface preparation short of total removal of old coating may compromise the service length of the system. Reference S-W 12.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:	50°F minimum, 100°F maximum (air, surface, and material) At least 5°F above dew point
Relative humidity:	85% maximum

MIXING INSTRUCTIONS

Mix contents of each component thoroughly with power agitation. Then combine 4 parts by volume of Part A with 1Part by volume of Part B. Thoroughly agitate the mixture with power agitation for 5 minutes.

If reducer is used, add only after both components have been thoroughly mixed.

APPLICATION INFORMATION

May be applied by brush, roller, or spray:

Airless Spray:

Pressure:	1500 - 2000 psi
Tip Size:	.011 - .015
Pump Size:	30:1
Filter Screen:	100 mesh

Conventional Spray:

Gun:	Binks 18
Tip/Needle:	63C763A
Air Cap:	63PE
Air Pressure:	60-70 psi
Fluid Pressure:	15-20 psi

TINTING

Not recommended.

DIRECTIONS FOR GRAFFITI REMOVAL

Use Plasti-Master, TSW-2 Multi-Master All Purpose Stain & Graffiti Remover or SW recommended Equivalent. Spray effected area until saturated. Allow time for solventaction to begin. Scrub with stiff bristle brush until graffiti is in suspension. It may be necessary to re-apply remover. FOLLOW DIRECTIONS ON LABEL. Hot Water or other approved cleaning solutions may be used.

ORDERING INFORMATION

Packaging

Component A:	1 gallon and 4 gallon kits
Component B:	Quarts and Gallons

Weight per gallon: 8.88 ± 0.2 lb (mixed)

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

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