Spray-Tek Acrylic™ Overlay System

Technical Information Sheet

Description:

The **Concrete Coatings Incorporated SprayTech Acrylic™ Cement System** is typically composed of 4 components; **Duraset ™ 1000 Modified Acrylic Resin**, **G100 Professional Series Grout Mix**, **C-Series Liquid Colorant**, and **Super Seal 2000 Acrylic Sealer**. It is designed for use on any concrete substrate; vertical or horizontal. It is specifically designed as a decorative concrete restoration system, providing outstanding weatherproofing and stain resistance to almost any concrete surface, old or new. It is also used frequently in industrial and commercial floor applications for decorative and restorative purposes.

Some Common Uses Include

- ⇨ Driveways
- ⇨ Walkways
- ⇨ Patio
- ⇨ Pool Decks (Including Coped Surfaces)
- ⇨ Porches & Entryways
- ⇨ Interior & Exterior
- ⇨ Residential or Commercial
- ⇨ Any Concrete Surface, Horizontal or Vertical

Features:

- ⇨ Freeze-Thaw Resistant
- ⇨ Salt & Alkali Resistant
- ⇨ Stain and UV resistant
- ⇨ Outstanding flexural properties (allows for concrete thermal expansion)
- ⇨ Outstanding mechanical properties. Impact resistance, compression & tensile strengths are almost twice that of regular concrete.
- ⇨ All components (excluding Super Seal) are non-flammable. Cured product is Non-flammable
- ⇨ Can be applied from feather edge to 2+ inches thick
- ⇨ Cure can be accelerated by using or adding Duraset 1001 FastSet Series Modifier
- ⇨ Resistant to most chemicals. Use of Super Seal 3600 Urethane provides resistance to almost all chemicals and solvents.

General Data & Characteristics

Duraset 1000/1001 Acrylic Modifier (Acrylic Polymer Resin)

Appearance:	Milky
Color:	White
Solids Content:	By Weight- 32% By Volume- 30%
Viscosity:	60 cps (Max)
Wt/Gal:	8.79 LB
pH:	9.5-10.5
Flash Point:	Non-Flammable
Packaging:	5-Gallon

G-100 Series Grout Mix

White Portland Cement:	30-40%
Silica Sand:	60-65%(crystalline free)
Flow Agent:	<1%
Packing:	50 LB. Bag

"C" Series Colorants

State:	Liquid, Water Soluble
Color:	Various
Viscosity:	85-105 cps
Solids Content:	
pH:	8.0-9.0
Flash Point:	Non-Flammable
Packaging:	1 Quart Bottle (950 cc)

Super Seal 2000 (Solvent Base Sealer)

Color:	Clear
Solid Content:*	By Weight: 24.79% By Volume: 20.35%
Wt/Gal:	8.9
Flash Point:	96°F (closed cup)
Packaging:	5-Gallon Pail

*****_High or low solids contents are not necessarily an indication of a high or low quality sealer. Lower volume solids with higher weight solids indicate a higher molecular weight, thus providing greater durability and lifespan at lower application rates._

Coverage:

1"MIX" = 1 Bag **G-100 Series Grout**
4.5 - 5 qt **Duraset 1000/1001 Modifier**
½ - ¾ Cup "C" Series Colorant

} Approximately = 100 ft² Finished Product (Skim & Spray)

Use of upgraded sealers such as SuperGlaze VOC or Super Seal 3600 (both urethanes) can increase durability and improve overall performance. Consult Concrete Coatings Inc. Technical Support for specific information to determine what your needs and options may be.

Coverages vary with temperature and substrate conditions, texture type and individual application techniques. However, an average texture applied over sound concrete will yield approximately 100 square feet finished product per 50 lb bag. Super Seal 2000 should yield approximately 160-200 square feet per gallon, per coat. (Note: Sealer usage can be affected dramatically by high or low temperatures and humidity. An initial flood coat is recommended, followed by a generous second coat. A higher gloss can be obtained by extending the time between coats. For a superior gloss and increased stain resistance a thin third coat is recommended but not necessary)

System Data

Sheer Bond Strength: (ASTM C-1042-99)	28 days	680 PSI
Tensile Strength: (ASTM C-109-72)	28 days	630 PSI
Compressive Strength: (ASTM C-109-73)	28 days	5735 PSI
Flexural Strength: (ASTM C-348-72)	28 days	1615 PSI
Freeze/Thaw Resistance: (ASTM C-291)	Passes 60 cycles	
UV Resistance:	No discoloration when exposed to UV light	
Chloride Ion Resistance:	(Ponding 3% Sodium Chloride/60 days) 100% @ 1" depth	
Sodium Hydroxide:	10% solution, 5-minute immersion – not affected	
Lactic Acid:	10% solution, 5-minute immersion – not affected	
Sulfuric Acid:	10% solution, 5-minute immersion – not affected	
Citric Acid:	10% solution, 5-minute immersion – not affected	
Gasoline:	5-minute immersion – very slight abrasion	
	15-minute exposure (ponding) - Slight dulling	

Moisture Retention, Test ASTM C309
S2000 (at 300 ft² per gallon), g/m²……..0.32
Test requirement, not to exceed, kg/m²…….....<0.4

Tukon Hardness
30 minutes at 180°F……9.3
30 minutes at 300°F……..13.7

Abrasion Resistance (ASTM D 4060)
Mg lost cs-17 wheel 1000 g load 1000 cycles……160

Spray conditions
Viscosity, No. 2 Zhan cup, sec……19

Pencil Hardness
30 minutes at 180°F……F
30 minutes at 300°F……H

Flexibility
1/8, 1/4, 1/2 inch mandrels*……..6, 5, 4

Roll conditions (Recommended Method)
Viscosity, No. 2 Zhan cup, sec……26

Tg°C……50

***The degree of cracking at the bend over each mandrel is rated on a 0 (no failure) to 10 (flaking) scale.**
Testing completed by manufacturer in accordance to ASTM guidelines under laboratory conditions.
All figures are based on typical applications. Variations of recommended formulations and applications may affect actual specifications.