



Concrete Coatings & Floor systems

TECHNICAL BULLETIN Kemiko® Two Component Water Extended Epoxy (SS1600 Series)

Description

Kemiko® Two Component Water Extended Epoxy (SS1600) is a two component water extended epoxy coating that comes in clear and pigmented variations. Product benefits include a long pot life and low odor which is ideal for interior applications that may have limited air flow. Kemiko® SS1600 Clear and pigmented versions can be used as a thin film primer for superior adhesion to properly prepared porous concrete surfaces. Kemiko® SS1600 Clear can also be used as an initial sealer over Stone Tone stained concrete.

Applications

Kemiko® SS1600 can be applied to properly prepared cementitious substrates. Typical applications include (as a prime coat) hospital floors, petrochemical and chemical secondary containment, warehouse flooring, showroom floors, and many other surfaces. This product is not intended as a final topcoat for direct UV exposure.

Physical Characteristics

Kit Size	Small (1.0Gal)* and Large (4.0Gal)* kits available (Clear and Black)
	Small (1.2Gal)* and Large (4.8Gal)* kits available (All other others)
	*Note: Kit sizes are approximate and vary depending on color
Colors Available	Clear and colors available
Volume Solids	43-46% (theoretical) Varies by color
VOC Contents	100-250 g/L (theoretical) Varies by color
Mixed Specific Gravity	1.07-1.11 (theoretical) Varies by color
Adhesion	>350 PSI, Concrete failure (ASTM D4541)
Hardness	3H (ASTM D3363)

Application Characteristics

Mix Ratio By Volume	1:2 (A:B) Approximate
Pot Life	60 minutes (small 1.0 and 1.2 gallon kit) 60 minutes (large 4.0 and 4.8 gallon kit)
Film Thickness	4.5-7 mils (0.11-0.18mm) wet film thickness (WFT)
Coverage Per Kit	1.0 Gal: 200 - 300ft ² (18.6 - 27.9m ²) @ 5-7 mils (0.13-0.18mm) WFT 1.2 Gal: 250 - 350ft ² (23.2 - 32.5m ²) @ 5-7 mils (0.13-0.18mm) WFT 4.0 Gal: 900 - 1250ft ² (83.6 - 116.1m ²) @ 5-7 mils (0.13-0.18mm) WFT 4.8 Gal: 1075 - 1500ft ² (99.9 - 139.0m ²) @ 5-7 mils (0.13-0.18mm) WFT Note: Coverage rates will vary depending on surface texture and porosity
Dry/Recoat Time	Dry to Touch: 8-10 hours Light Foot Traffic: 16-24 hours Heavy Traffic: 36-48 hours Recoat Window: Within 24 hours after product reaches Dry to Touch Time
Induction Time	Allow 10 minute induction prior to thinning and application
Intermediate Coats	Kemiko® SS1202, SS1500, SS2400, SS3500, and SS3900
Thinning	Thin product 10-15% (by volume) with clean water only
Clean Up	Clean tools with warm water and mild soap
Shelf Life	12 Months from manufacturing date

Note: Testing was performed at 77°F (25°C) and 50% RH. Product characteristics will vary depending on temperature, humidity and other conditions relative to the environment.



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Packaging Description

Weight per Kit:

Small kit: 8.9 lbs (4.0 kg)

Large kit: 46.2 lbs (20.9 kg)

Kemiko® SS1600 Clear Part A Resin SA1600 contains:

2.27 lbs (1.03 kg) / 0.25Gal (0.95 L) of product in a 1 quart (0.95 L) container **(small kit)**

9.10 lbs (4.13 kg) / 0.99Gal (3.78 L) of product in a 1 gallon (3.78 L) container **(large kit)**

Kemiko® SS1600 Clear Part B Hardener SB1600 contains:

6.60 lbs (2.99kg) / 0.75Gal (2.84 L) of product in a 1 gallon (3.78 L) container **(small kit)**

26.43 lbs (11.99kg) / 3.1Gal (11.73 L) of product in a 4 gallon (15.12 L) container **(large kit)**

Weight per Kit: Kemiko® SS1600 Pigmented Series:

Small kit: 12.17 lbs (5.52 kg)

Large kit: 48.7 lbs (22.1 kg)

Kemiko® SS1600 Pigmented Series Part A Resin SA1600 contains:

2.27 lbs (1.03 kg) / 0.25Gal (0.95 L) of product in a 1 quart (0.95 L) container **(small kit)**

9.10 lbs (4.13 kg) / 0.99Gal (3.78 L) of product in a 1 gallon (3.78 L) container **(large kit)**

Kemiko® SS1600 Pigmented Series Part B Hardener SB1600 contains:

9.90 lbs (4.49kg) / 0.95Gal (3.60 L) of product in a 1 gallon (3.78 L) container **(small kit)**

39.64 lbs (16.62kg) / 3.8Gal (14.42 L) of product in a 4 gallon (15.12 L) container **(large kit)**

Environmental Conditions

For best results, apply when surface temperature is between 50°F- 85°F (10°C-29°C) and 5°F (3°C) above dew point. Avoid using in direct sunlight. Do not apply on rainy or foggy days.

Clean Up

Use warm water and mild soap to clean tools.

Storage Conditions

Store between 50°F-100°F (10°C-37.8°C). Keep in a cool, well-ventilated area, away from direct sunlight and heat. Store in a segregated and safe area, avoiding all possible sources of ignition.

Safety

Care should be taken when using this product. During application, use protective eye wear, proper respirator and protective gloves. Ensure work spaces are well ventilated. Read product label and SDS carefully for more detailed safety information prior to handling or use.

Disclaimer

Information provided in this technical bulletin is based on laboratory testing under controlled ambient conditions and is used as a guideline only.

Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product that is proved to be defective. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss or damage resulting from use of this product.

Contact us for any additional application information.



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