



TOTAL SEAL

Technical Data Sheet (04/13/09)

DESCRIPTION

TOTAL SEAL is a two-part epoxy coating system that has been specifically designed with specific additives to promote adhesion when used on concrete and masonry. TOTAL SEAL was developed to be applied to surfaces that have hydrostatic pressures and moisture mitigation. It is a water repelling epoxy for use under water or in areas where constant splashing or condensation is a problem. It is resistant to chemicals and solvents, and can be applied directly to concrete, masonry and wood.

TYPICAL USES

- As a one-coating system for interior concrete block walls.
- As a system to seal leaking concrete walls and floors due to hydrostatic pressure.
- As a one-coating system for interior-housed swimming pools.
- Very good acid and good alkali resistance.
- As a one-coating system for warehouse flooring.

APPLICATION METHODS

TOTAL SEAL can be applied to concrete or masonry substrates. The coating can be applied by spray, brush or roller. For specific instructions on surface preparation, mixing and application, please refer to the SPI's application instructions for TOTAL SEAL.

TEST AND CERTIFICATIONS

1. USDA approved
2. ASTM B117 – Salt spray corrosion test
3. ASTM D1654 – 450 hour evaluation over black steel

FIELD TEST HAVE PROVEN:

1. The coating has outstanding adhesion
2. The coating is resistant to solvents and chemical splashes
3. The coating is flexible, yet resistant to impact

MINIMUM SPREAD RATES (mil thickness)

Porous Surfaces – Apply 3 applications of TOTAL SEAL @ 200 sq ft/gallon; (18 sq mtr/gallon); 8 mils wet/4 mils dry (200 microns wet / 100 dry) each coat. This will leave a total thickness of 10-12 dry mils (250-300 microns dry).

NOTE: Surface and ambient temperatures will determine cure-time. Introduction of heat beneath or over surface will enhance the cure time.

Induction Period: 30 minutes at 70°F (21°C).

No induction time is necessary over 90°F (32°C).

PHYSICAL DATA

- ◆ Reacted Solids: By weight 69% / By volume 51%
- ◆ 30-60 MINUTES TO TACK FREE AT 70°F (21°C)
- ◆ Overcoat window is three hours or less at 70°F (21°C)
- ◆ Lead and chromate free
- ◆ Cures by chemical reaction
- ◆ Reacted Weight: 11.2 lbs. per gallon
- ◆ Amine-epoxy
- ◆ Shelf Life: Up to 3 years (unopened) under appropriate storage condition (see MSDS)
- ◆ Mix Ratio; 4 part base to 1 part curing agent by volume
- ◆ Reactive VOC - White: 3.48 lbs/gal; 417 grams per liter
- ◆ Tinting: Can be tinted any color with a minimum of 250 gallons
- ◆ Resistant to mild concentrations of solvents, chemicals and acids
- ◆ Maximum Surface Temperature when applying; 150°F (65°C)
- ◆ Minimum Surface Temperature when applying; 50°F (10°C)
- ◆ Maximum Surface Temperature after curing; 325°F (163°C)
- ◆ Failure will occur at a constant temperature equal to or greater than 325°F (163°C); consult SPI for intermittent temperatures greater than 325°F (163°C)

SAFETY PRECAUTIONS

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: proper ventilation, use of proper lamps, wearing of protective clothing and masks, tenting, and proper separation of application areas. This coating is flammable. Keep away from fire, or other sources of ignition. For more specific safety procedures, please refer to the TOTAL SEAL Material Safety Data Sheet.

KEEP OUT OF REACH OF CHILDREN.

LIMITATION OF LIABILITY: The information contained in this data sheet is based upon tests that we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the products made by SPI, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge is reliable. The products and information are designed for users having the requisite knowledge and industrial skills, and the end-user has the responsibility to determine the suitability of the product for its intended use.

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