



# SPI COATINGS

PROVEN PERFORMANCE • REAL WORLD SOLUTIONS

## SUPER THERM Bake System (S.T.B.S.)

**INSULATION  
AND  
CORROSION  
SPECIALISTS**

### Technical Data Sheet (01/25/21)

#### **DESCRIPTION**

S.T.B.S. is a water-borne combination of high-performance acrylic resin which produces a tough, yet flexible coating film. It combines four different ceramics that provide both heat reflectivity and heat-blocking properties. S.T.B.S. is a flexible membrane with low permeability that can greatly reduce expansion and contraction of a roof. S.T.B.S. is designed to be applied over cold roll steel in the coating process.

#### **TYPICAL USES**

As a coating applied over cold roll steel to be oven-dried in process, to provide a finished insulated metal sheet of panel

#### **APPLICATION METHODS**

S.T.B.S. is applied and leveled by blade or sprayed. Oven time of 10 minutes @ 300°F (149°C); applied at 15 mils wet, giving 9 mils dry.

#### **TESTS AND CERTIFICATIONS (partial list)**

USDA Approved

#### **FIELD TESTING has proven:**

1. The coating provides a water-tight barrier
2. The coating can withstand large temperature variances without peeling, cracking or loss of adhesion
3. The coating is resistant to mold and mildew
4. Designed for flexibility and elongation, the coating is designed to move with the substrate, and to withstand the rigors of expansion and contraction
5. The ceramics contained have sound dampening qualities.

#### **PHYSICAL DATA**

- ◆ Solids: By weight 69% / By Volume: 62%
- ◆ Cures by oven 300°F (149°C), 10 minutes.
- ◆ Weight: 12.24 lbs evaporation. per gallon
- ◆ Vehicle Type: Acrylic blend
- ◆ Shelf Life: Up to 2 years if unopened under appropriate storage conditions (See MSDS).
- ◆ VOC Level: 25 grams/liter
- ◆ Viscosity: 105 – 110 KU;
- ◆ pH: 8.5-9.0
- ◆ 110 sq.ft./gallon (10.2sqm): 15mils (375 microns) wet / 9 mils (225 microns) dry
- ◆ Maximum Surface Temperature when applying: 300°F (149°C) oven temperature for 10 minutes.
- ◆ SPREAD RATE: 110 sq.ft./gallon; 9 dry mils

#### **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. For more specific safety procedures, please refer to the S.T.B.S. 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.

SPI has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, SPI does not accept any liability arising from loss, injury, or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

Information contained in this data sheet is subject to modification as a result of experience and continuous product development. This data sheet replaces and previous issues and the user has the responsibility to ensure that this sheet is current in the product.