

# SURFACESEAL

## PRODUCT 413

### FAST CURING NON-STRUCTURAL SURFACE SEALER

#### PRODUCT DESCRIPTION

**Thermal-Chem SurfaceSeal, Product 413**, is a two-component, solvent free, moisture insensitive, smooth paste epoxy adhesive designed for use as a very fast curing surface sealer.

#### USES

Typical uses are as an adhesive to attach and seal ports and tees to concrete and to seal the surface of cracks before injecting any of **Thermal-Chem's Injection Resins or Urethane Foams**.

**SurfaceSeal** is not recommended for structural bonding. Use only as a surface sealer.

#### TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	SurfaceSeal 413
Compressive Strength ASTM D695 4 Hrs. @ 73°F	PSI 7800
16 Hrs.	8500
24 Hrs	8600
7 Days Tensile	9200
Tensile ASTM D638 Elongation Break	24 Hrs. 3300 PSL 0.2%
Flexural (Modulus of Rupture) ASTM D790	24 Hrs. 5000 PSI
Shear ASTM D732	24 Hrs. 2500 PSI
Bond Strength ASTM C882	48 Hrs. 3000 PSI
Deflection Temp. ASTM D648	24 Hrs. 115°F

Water Absorption ASTM  
D570

7 Day (2 Hr. Boil) 0.8%

#### ADVANTAGES

- **SurfaceSeal** is a non-structural grade epoxy that allows for easy removal.
- Fast Tack Free Time
 

90°F	20-25 Minutes
73°F	25-30 Minutes
40°F	1 -1 ½ Hours
- Volume mix ratio: 1:1
- May be installed on moist substrates

#### LIMITATIONS

- Minimum 40°F application temperature.
- Do not thin with solvents.
- Not recommended for sealing cracks under hydrostatic pressure or leaking cracks.

#### COLOR, TEXTURES and PACKAGING

- Smooth paste consistency
- Concrete Gray color when mixed
- Packaged in Dual Cartridges (15 per Case) and 1 Gallon Units.

#### PRODUCT APPLICATION

**Surface Preparation** – The surface must be sound and clean. It may be dry or damp, but free of standing water. Remove dust, grease, curing compounds, impregnating waxes, foreign particles.

Apply a band approximately ¼” thick over cracks to be injected and around injection ports. Allow sufficient time to cure before pressure injection.

**SurfaceSeal** is designed with a consistency that will provide a smooth, creamy, easy-to-mix surface sealer even at low temperatures. Mix Component A&B thoroughly for 1 to 2 minutes and immediately begin to apply the surface sealer. Pot life or working time will be approximately 6-8 minutes and 4-6 minutes at temperatures of 55-75°F and 75-95°F,

respectively. SurfaceSeal should be cured sufficiently to begin the injection process in approximately 20 to 45 minutes, depending upon temperature. At cooler temperatures of 40-55°F, pot life should be 8-12 minutes with a cure time of 45 minutes to 1 ½ hours. When applying to a cold substrate, mix for 1 to 2 minutes then let the material set for 3 to 5 minutes to build heat before it is applied to a cold surface. For best results always precondition the material to 75-85°F.

### PRODUCT AVAILABILITY

Products are manufactured and available through the Thermal-Chem Corporation, 2120 Roberts Drive, Broadview, IL 60155 U.S.A.

Tel: 800/635-3773 ■ 847/288-9090

Fax: 847/288-9091

E-Mail: [sales@thermalchem.com](mailto:sales@thermalchem.com)  
[help@thermalchem.com](mailto:help@thermalchem.com)

Website: [www.thermalchem.com](http://www.thermalchem.com)

### TECHNICAL/SPECIFICATION SERVICES

Additional Product Data, complete Technical Support and Product Specifications are all available through the Thermal-Chem Corporation or their local representatives.

Every reasonable precaution and effort has been taken in the manufacturer of all Thermal-Chem products to comply with the published product data. Actual product performance may vary slightly due to environmental influences and/or conditions.

### PRODUCT HANDLING

Read the Material Safety Data Sheet thoroughly before use.

**Warning:** For professional use only. Avoid contact of uncured material with skin and eyes. Contact with skin may result in irritation. Wash skin with soap and water. If contact with eyes

should occur, flush with water for 15 minutes and seek immediate medical attention.

### LIMITED WARRANTY

Thermal-Chem Corporation warrants its product to be of good quality and will replace any product proved defective. Satisfactory results depend not only upon quality products but also upon many factors beyond our control. Therefore, except for such replacement, **THERMAL-CHEM CORP. MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS**, and Thermal-Chem Corporation shall have no other liability with respect thereto, including without limitation, liability for incidental or consequential damages. Any claim regarding product defect must be received in writing within one hundred and eighty (180) days from the date of shipment. No claim will be considered without such written notice or after the specified time interval. The user shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith.