



THERMO-SIL PRO™ ROOF PATCH TECHNICAL DATA SHEET

Product Use and Design

Thermo-Sil Pro™ Roof Patch is a solvent-based fibered silicone mastic intended for use as a direct-bond, permanent patch and repair product. Can be used to repair membrane punctures caused from hail damage or mechanically induced damage from foot traffic, HVAC servicing, and other related membrane perforations. Thermo-Sil Pro™ Roof Patch can be used to permanently seal joints and fasteners on a variety of roofing details and applications.

Application Equipment

Thermo-Sil Pro™ Roof Patch can be applied by trowel, stiff brush or gloved hand. For cold weather application, keep material stored above 65°F (18°C). Do not apply to substrates with temperatures below freezing or above 120°F (49°C).

Mixing Procedure

Thermo-Sil Pro™ Roof Patch should never be thinned. If settling of packaged container occurs, stir or shake material prior to use.

Surface Preparation

All surfaces must be clean, dry, free from oils and other contaminants. It may be necessary to power wash and/or prime to ensure adhesion.

Product Application

Apply Thermo-Sil Pro™ Roof Patch to ensure a uniform build and thorough coverage typically applied in one application. Apply only to roofs with adequate positive drainage. Make sure roof is well ventilated. If applying in multiple applications, allow adequate time between each application to cure before applying additional material. Lower temperatures and higher humidity prolongs drying and curing time. Final cured thickness must be free of voids, pinholes, cracks or blisters. Full cure time is 24 hours. Consult Huntsman Building Solutions Technical Service personnel or refer to specifications for complete details.

Coverage

Recommended coverage rate of 80-120 linear feet at a minimum thickness of 1/8". Application rates may vary by surface, porosity and job conditions.

Cautions & Recommendations

Inclement weather may negatively affect uncured Thermo-Sil Pro™ Roof Patch by displacement of uncured material; therefore, application should not proceed if heavy rain, hail or snowfall is impending or expected within 4 hours of application. Thermo-Sil Pro™ Roof Patch requires atmospheric moisture for propagation of cure, thus it is not suitable for use in totally confined spaces.

Weather Restrictions

Thermo-Sil Pro™ Roof Patch should not be applied at ambient temperatures below 40°F. All surfaces must be clean, dry, and sound; free of loose and peeling coatings and mastics, grease, oil, efflorescence, curing agents, form release agents, dirt, mildew and other detrimental foreign matter that will adversely affect adhesion and product performance.

Shelf Life:

18 months from manufactured date when stored in unopened containers and between 35°F - 75°F. Refer to product packaging for manufacture date.

Packaging

U.S. MEASURES: 2.0 Gallons (7.57 liters)

Shipping Information

Class 55 for 2.0 Gallons (7.57 liters)

Physical Properties

Properties	Test Method/Requirements	Value
Tensile Strength:	ASTM D-412	184 psi (±5) @ 73°F
Elongation:	ASTM D-412	74% (±5) @ 73°F
Solids by Volume:	ASTM D-2697	73% (±2)
Solids by Weight:	ASTM D-2697	83% (±2)
Tear Resistance:	ASTM D-624	35 (±3) lbf/in @ 73°F
VOC:		<250 grams per liter
Tack Free Cure:		2 hours
Dry to Touch:		6 Hours

Ponding Water

ThermoSiTM Pro Roof Patch can be applied over properly prepared surfaces that exhibit ponded water, however, The National Roofing Contractors Association (NRCA) considers ponding water an undesirable non-standard roofing practice and recommends that all roof systems be designed and built to ensure positive drainage. (See the NRCA Roofing and Waterproofing Manual). Please contact Tropical Roofing Products Technical Department for any specific questions regarding the application of this product.

General Health & Safety Precautions

This product is intended for use by trained professional personnel. Safety Data Sheets are available and any individual who may come in contact with these products should read and understand the S.D.S. In case of emergency contact CHEMTREC EMERGENCY NUMBER at (800) 424-9300.

WARNING: Avoid eye contact with the liquid or spray mist. Applicators should wear protective clothing, gloves and use protective equipment on face, hands and other exposed areas.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION is MANDATORY! Respiratory protective equipment, impervious foot wear and protective clothing are required at all times during spray application. Contact Huntsman Building Solutions for a copy of the Respiratory Protection Program developed by OSHA.

DISCLAIMERS

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