



STOP HEAT

SOLAR BARRIER

Product Information (02.02.22)

PRODUCT DESCRIPTION

STOP HEAT is a water-borne high-performance coating solution that blocks the absorption of solar heat gain into any external surface. Normal paints heat up from exposure to the sun. STOP HEAT is specifically designed with ceramics to keep your surfaces cool. Once applied by brush, roller or spray, STOP HEAT significantly reduces surface temperatures resulting in substantial comfort through reflectivity and emissivity. STOP HEAT is both tough and flexible, with a low permeability to resist corrosion and surface deterioration. Used on buildings, RV's, boats, equipment and more.

RECOMMENDED USES

- Metal roofs & walls
- Mobile homes and RV roofs
- Shipping containers
- AC unit shell, exposed metal ducting
- Marine wheelhouse and vertical metal
- Industrial tanks storing light hydrocarbons
- Agricultural silos, horse trailers, chicken farms
- Anything prone to heating up from solar radiation

APPLICATION PROCEDURE

STOP HEAT can be applied to metal, concrete, masonry and wood. The application can be spray, brush or roller. For specific instructions on surface preparation, mixing and application, please refer to the Coatable's application instructions for STOP HEAT. This coating should never be applied at less than a total of 17 mils wet (431 microns), 9.3 mils dry (236 microns).

PERFORMANCE CHARACTERISTICS

- STOP HEAT reduces solar heat load
- STOP HEAT provides a water-tight barrier
- STOP HEAT can withstand large temperature variances without peeling, cracking or loss of adhesion
- STOP HEAT is resistant to mold and mildew
- Designed for flexibility and elongation, STOP HEAT is designed to move with the substrate, and to withstand the rigors of expansion and contraction
- The ceramics in STOP HEAT have sound dampening qualities.

PRODUCT CHARACTERISTICS

- Vehicle Type: Acrylic blend
- Solids: By weight 60.5% / By Volume: 55.7%
- 30-60 minutes to tack free at 70°F (21°C)
- Overcoat: 2 hours when 70°F (21°C) at 40% relative humidity
- Full Cure: 21 days
- Cures by evaporation
- Weight: 11.8 lbs. per gallon
- Shelf Life: Up to 3 years if unopened under appropriate storage conditions (See MSDS).
- VOC Level: 21 grams/liter
- Viscosity: 105 – 110 KU;
- pH: 8.5-9.5
- Maximum Surface Temperature when applying: 150°F (65°C)
- Minimum Surface Temperature when applying: 40°F (5°C)
- Maximum Surface Temperature after curing: 300°F (149°C)
- SPREAD RATE: 95 sq.ft./gallon; 9.3 dry mils

SAFETY PRECUATIONS

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 STOP HEAT Material Safety Data Sheet. **KEEP OUT OF REACH OF CHILDREN.**

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SURFACE PREPARATION

Surfaces should be clean, dry and sound. Existing surface dirt, salts, oil, tar, grease and film must be removed prior to application of STOP HEAT. STOP HEAT may be applied to other surfaces: metal, masonry, and wood following preparation procedures recommended according to manufacturer's specification sheet. Use RUST BASE as a primer when needed on metal and concrete surfaces. Refer to RUST BASE technical data sheet for overcoat window. Modified bitumen, asphalt roofing, PVC, TPO and single-ply membranes must be primed with AUTO PREP.

1. Use general degreaser if needed.
2. Clean surface using TSP (trisodium-phosphate) or a citrus cleaner to release dirt and degreaser residue.
3. Pressure-wash, if possible, @ 3500 psi.
4. Salt contamination on a surface can come as a result of salt water, fertilizers, and car exhaust. Use Chlor*Rid or equivalent to decontaminate surface if salts are present. Acceptable levels: Nitrates: 5-10 mcg/cm², Sulfates: 5-10 mcg/cm², Chlorides: 3-5 mcg/cm².

Surface must be completely dry before applying.

1. STOP HEAT must be applied during proper temperatures (below) and the prescribed overcoat window of the coating over which it will be applied.
2. Maximum Surface Temperature when applying: 150°F (65°C).
3. Minimum Surface Temperature when applying: 40°F (5°C).
4. Maximum Surface Temperature after curing: 300°F (149°C).

Notes

1. Use RUST BASE as a primer to seal rusted surfaces.
2. If pack rust or mill scale exist, it must be removed by grit blast, power tool or needle gun. Once removed, use RUST BASE as a primer.
3. For surfaces such as tar, plastic, EPDM, TPO, prime with AUTO PREP.
4. Where continuous pooling may occur: STOP HEAT should be over-coated with KEEP SHINE or an approved topcoat.

MIXING INSTRUCTIONS

STOP HEAT should be mechanically mixed or mixed by hand for three minutes, then applied.

APPLICATION

STOP HEAT can be applied by brush, roller or spray; however, the preferred method is by air or airless sprayer. It should never be applied directly over rust, nor should it ever be diluted or thinned. If rolling, use ¼ inch nap roller and split the application into two even coats.

1. If application is by brush, use a soft bristle brush.
2. If application is by roller, use a 1/4 inch nap roller, 2 coats.
3. If application is by spray, use a standard airless sprayer (2 gallons/minute at 3,300 psi.) with a .029-.033 tip.

NOTE: The number of applications and the thickness of each should be in accordance with the job specifications. If rolling, use two even coats for better control and aesthetics.

NOTE: All filters should be removed from both the gun handle and spray machine prior to application, as they will trap the ceramics.

NOTE: Temperatures must always be a minimum of 5 degrees F. above the dew point during application.

NOTE: If STOP HEAT is applied during a period of extremely high humidity or if there is rain soon after the application, bubbles may appear on the surface. Do not puncture these bubbles. This is normal and the coating will continue to cure with no effect on the performance or appearance of the coating. Bubbles will dry down tight and disappear without a trace or imprint.

MINIMUM SPREAD RATES

STOP HEAT will be applied at no less than a total of 17 mils wet (431 microns)/9.3 mils dry (250 microns) for each application. Spread Rate is 95 sq ft per gallon. (8.82 sq meter per gallon).

CURE TIME

1. 30-60 minutes to tack free at 70°F (21°C).
2. Overcoat: 2 hours when 70°F (21°C) at 40% Relative Humidity.
3. Full Cure: 21 days.

TEMPERATURE

1. Apply between 50°F. and 100°F.
2. Store between 40°F. and 100°F.

CLEAN-UP EQUIPMENT

1. After completion, spray system should be cleaned with soap and water.
2. After completion, brushes and rollers can be cleaned with soap and water, stored and reused.

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 safety procedures, please refer to the STOP HEAT Materials Safety Data Sheet. **KEEP OUT OF REACH OF CHILDREN.**



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Safety Data Sheet (02.02.22)

SECTION 1: Identification of the substance

1.1 PRODUCT IDENTIFIER: STOP HEAT: GHS PRODUCT IDENTIFIER: Global Harmonized System #3209.10.0000

1.2 PRODUCT USE: Insulation coating to create thermal barrier on substrates

1.3 COATABLE LLC: 916 W. Burbank Blvd, Unit C-279, Burbank CA 91506

1.4. EMERGENCY TELEPHONE NUMBER: 800/424-9300; 202/483-7616

SECTION 2: Hazard identification

2.1 Classification of the substance: This products is a water-based coating and is not classified as dangerous for supply or conveyance.

2.2 Label elements: Signal Word: WARNING

Hazard Symbol



Hazard Statement: Irritant, dermal sensitizers, acute toxicity (harmful).
H320 causes eye irritation. H317 may cause an allergic skin reaction.

SECTION 3: Hazardous ingredients

This product is water-based and not classified as dangerous for supply or conveyance. The ingredients are water-reducible. This product has been analyzed for use in and around food manufacturing and found to be safe for use on non-contact surfaces. No toxics or toxic off-gassing is present.

Texanol	0.5-1.5% (CAS #25265-77-4)
Mica	1.5-3% (CAS #12001-26-2)

SECTION 4: First aid measures

4.1 Description of first aid measures

INHALATION: Remove to fresh air.

EYES: Flush with water for at least 15 minutes; see physician if irritation continues.

SKIN: Wash affected areas w/mild soap & water.

INGESTION: Do not induce vomiting. Give 1-2 glasses of milk or water. Seek medical attention according to the amount of product ingested.

SECTION 5: Firefighting measures

5.1 Extinguishing media: Water, water fog, dry chemical, foam or C02

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: Carbon monoxide, methacrylate and other noxious gases.

Autoignition Temperature: NAP Minimum ignitions energy: NAV

Flash point: NAP Flammable limits: (Lower) NAP / (Upper): NAV%

Sensitivity to static discharge? NO Sensitivity to mechanical impact? NO

Conditions of flammability: Not flammable; water-based product

5.3 Advice for firefighters: Firefighters should wear full-body protection & SCBA



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SECTION 6: Accidental Release Measures

- 6.1 Personal precautions:** Use protective clothing; use particulate respirator when spraying.
6.2 Methods of cleanup: Use kitty litter or similar absorbent to contain spill.

SECTION 7: Handling and Storage

- 7.1 Precautions for safe handling:** Treat as paint product. Use ventilation and protective equipment to suit conditions of use.
7.2 Conditions for safe storage: Keep from freezing. Store below 50C degrees. Keep container closed tightly to prevent drying out.

SECTION 8: Exposure Controls and Personal Protection

- 8.1 Control parameters:** Avoid inhalation of liquid when applying. Use particulate respirator. ENGINEERING CONTROLS: Use mechanical exhaust ventilation to control aerosol or mist if sprayed.

SECTION 9: Physical and Chemical Properties

This product is water-based and not classified as dangerous for supply or conveyance. The ingredients are water-reducible. This product has been analyzed for use in and around food manufacturing and found to be safe for use on non-contact surfaces. No toxics or toxic off-gassing is present.

PHYSICAL STATE:	Liquid
SOLUBILITY IN WATER:	soluble
APPEARANCE AND ODOR:	White, mild acrylic odor
FREEZING POINT:	30F. degrees
BOILING POINT:	192C degrees pH: 8
SPECIFIC GRAVITY:	1.4
ODOR THRESHOLD:	0.08-25ppm
COEFF. WATER/OIL:	NAV
EVAPORATION RATE:	slow%
VAPOUR DENSITY (Air = 1):	NAV
VOLATILES:	less than 5
VAPOUR PRESSURE:	18mmHg@20C. deg
CORROSIVE	No

SECTION 10: Exposure Controls and Personal Protection

- 10.1 Conditions of Reactivity:** Stable
10.2 Conditions of Instability: Stable under normal conditions
10.3 Possibility of hazardous reactions: None known.
10.4 Conditions to avoid: None known.
10.5 Incompatible materials: Strong acids or bases
10.6 Hazardous decomposition products: None known, no hazardous polymerization



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SECTION 11: Toxicology Information

11.1 Information on toxicological effects:

Acute toxicity - oral: Not meant to be ingested; no known significant effects or critical hazards

Acute toxicity - inhalation: Vapors or mist can cause mild irritation.

Acute toxicity - dermal: Liquid splash could result in eye or nose irritations and/or headache

Health effects to chronic exposure: Excessive exposure to liquid product may result in minor irritations

SECTION 12: Ecological Information

12.1 Toxicity

No known toxins as product is water-based and not deemed hazardous.

SECTION 13: Disposal Consideration

13.1 Waste treatment methods: Dispose of as paint according to local regulations.

SECTION 14: Transport Information

This product is not regulated in any capacity of transport.

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance:

No listed materials under Superfund Amendments & Reauthorization Act of 1988 (SARA) 302, 304, 311, 312. Meets European codes under Article 59(10) of the Reach regulation.

SECTION 16: Other Information

Regulatory agency controls and restrictions are minimal regarding conveyance or use of water-based products other than what has been specifically addressed.

PREPARED BY: Coatable, LLC

DATE: 10/24/21