TANK INSULATION

We spray a closed-cell polyurethane foam directly onto the outside of the tank. Our standard coat is 2" thick, and we can apply 3" or 4" when you need more. The foam is then sealed with a white elastomeric mastic that blocks UV light and stretches as the tank expands and contracts.

Insulation keeps the liquid closer to the temperature you want, cuts the load on heat trace and protects outdoor tanks from freezing.

R-6.7	R-13+	98%
per inch	Standard 2" coat	Closed cell



Insulated vertical tank



Cone bottom

WHY CUSTOMERS CHOOSE IT

- **Closed-cell foam**
  Will not absorb water or let it pass through, so it keeps insulating outdoors.
- **Flexible UV coating**
  White elastomeric mastic protects the foam from sunlight and moves with the tank.
- **Thicker when needed**
  2" standard; 3" or 4" for colder climates or tighter temperature control.
- **Bonded to the tank**
  Sprayed on with no seams or gaps for water to get behind.
- **Pairs with heat trace**
  Heat pads go on first and the foam covers them, so a small system holds temperature.
- **Easy to touch up**
  Scuffs from shipping repair with canned closed-cell foam and an elastomeric roof coating.

FOAM PROPERTIES

Type	Two-component closed-cell spray polyurethane
R-value	6.7 per inch (6.9 per inch at 4")
Core density	2.0–2.3 lb/ft³
Closed cell content	98%
Compressive strength	26 psi
Water absorption	0.6% by volume
Flame spread	25 (ASTM E84, Class I)

COATING & OPTIONS

Standard thickness	2" foam (R-13+)
Optional	3" (R-20) or 4" (R-27)
Top coat	White elastomeric acrylic mastic for UV protection
Fittings	Foam is cut back around fittings, lids and lugs
Heat trace	SPX pads and 2XTC controller, installed under the foam
Touch-up	Closed-cell canned foam plus elastomeric roof coating

Foam properties are typical values from the BASF SPRAYTITE® 178 technical data sheet. Actual values vary with application conditions.

BAILIFF ENTERPRISES, INC. ◆ 305 E. Rogers Road ◆ Willis, TX 77378
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TANK HEAT TRACE

Keep the liquid in your tank from freezing, or hold it at a process temperature. We bond HTD Heat Trace SPX heating pads to the sidewall of the tank and wire them to a 2XTC controller. The controller holds your setpoint and a separate high-limit sensor keeps the pads from ever overheating the plastic.

It is almost always paired with our spray-foam insulation.

0.39	150°F	210–4200 W
watts / sq. in.	Max. maintain	System sizes



2XTC tank heating controller

WHY CUSTOMERS CHOOSE IT

Made for plastic tanks
Ultra-low watt density pads with an internal over-temperature thermostat. Safe on HDPE and polypropylene.

Waterproof pads
Epoxy-glass laminate keeps working even if rain or an overflow gets under the insulation.

Two sensors
A process RTD holds your setpoint. A separate high-limit RTD shuts the heat off if the tank wall gets too hot.

Alarms you can wire in
Low temperature, high temperature and low heater current, with relay contacts and a 4–20 mA temperature output.

Indoor or outdoor
NEMA 4X / IP66 controller runs on 100–277 VAC and switches up to 30 A.

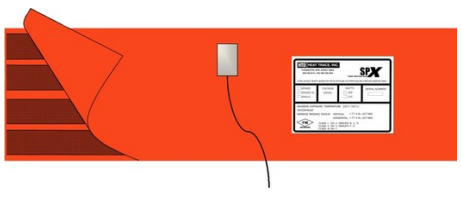
Sized to your tank
We pick the pads from your tank size and the temperature difference you need to hold.

THE HEAT TRACE PACKAGE

PAD
SPX 210
210 W, 30" × 18" adhesive-backed pad. For small tanks and tight spaces.

PAD
SPX 420
420 W, 60" × 18" pad. Available with 10, 16, 20 or 24 ft cold leads.

CONTROLLER
2XTC
Process control with high-limit protection. One controller runs up to 30 A of pads.



SPX pad with cold lead

Ideal for: freeze protection of water and chemicals stored outdoors, and keeping viscous or temperature-sensitive liquids at a steady temperature.

Tell us: the tank, the liquid, the lowest outside temperature and the temperature to hold. We will size the system and quote it installed.

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HEAT TRACE SPECIFICATIONS

PADS · SPX 210 / 420

HTD Heat Trace plastic tank heating pad

Power	SPX 210: 210 W · SPX 420: 420 W
Size	30" × 18" (210) · 60" × 18" (420)
Watt density	0.39 W/sq. in.
Voltage	120 VAC (240 VAC on request)
Max. maintain temp.	150°F (66°C)
Max. exposure temp.	220°F (104°C)
Min. install temp.	50°F (10°C)
Min. tank diameter	36" (18" bend radius)
Construction	Multi-path parallel circuit in waterproof epoxy-glass laminate, aluminum ground shield
Protection	Internal over-temperature thermostat
Cold lead	3-conductor 16 AWG, TPE jacket, tinned copper braid
Mounting	Adhesive back; edges sealed with aluminum tape

CONTROLLER · 2XTC

Microprocessor tank heating controller

Power input	100–277 VAC, 50/60 Hz
Heater output	30 A SPST relay, active arc suppression
Process setpoint	0–200°F, on/off with adjustable band
High limit	0–250°F, separate sensor
Alarms	Low temp., high temp., low current (current test every 24, 168 or 720 hrs)
Alarm outputs	Relays, 5 A @ 277 VAC, open or close on alarm
Remote output	4–20 mA process temperature
Sensors	1,000 Ω platinum RTD, 2-wire
Ambient	-40° to 113°F
Enclosure	NEMA 4X / IP66 polycarbonate
Approvals	UL 508, CSA 22.2 #14

STANDARD SYSTEMS

Pads	Watts	Amps @ 120 V	Controllers
1 × SPX 210	210	1.75	1
2 × SPX 210	420	3.5	1
1 × SPX 210 + 1 × SPX 420	630	5.25	1
2 × SPX 420	840	7	1
3 × SPX 420	1,260	10.5	1
4 × SPX 420	1,680	14	1
5 × SPX 420	2,100	17.5	1
6 × SPX 420	2,520	21	1
7 × SPX 420	2,940	24.5	2
8 × SPX 420	3,360	28	2
10 × SPX 420	4,200	35	2

We size each system from the tank and the **temperature difference** you need to hold: the gap between the lowest expected outside temperature and the liquid temperature. Our sizing tables run from 30°F to 100°F of difference for every vertical and double wall tank we sell.

Larger systems split the pads between two controllers. Pads are installed under the insulation, and the tank is hydro-tested before shipping.

Specifications from HTD Heat Trace SPX and 2XTC data sheets. SPX and 2XTC are products of HTD Heat Trace. Specifications subject to change.

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