



Concrete Temperature & Maturity Monitoring Report

Sample closeout document demonstrating the project record delivered by FinishSure.

Project ABC Medical Center Expansion	Placement Foundation Wall 3	Report period July 22-25, 2026
Project location Atlanta, Georgia	Sensor location Grid C-4 / Lift 1	Monitoring duration 72 hours

Executive Summary

FinishSure continuously recorded concrete core and surface temperatures during the first 72 hours after placement. The sample record below shows the heat-rise, peak-temperature, and cooling phases, along with ambient weather context and the cumulative temperature-time factor. No configured temperature or differential threshold was exceeded during this sample monitoring period.

142 F

Peak core temperature

128 F

Peak surface temperature

14 F

Maximum core-to-surface
differential

8,430 F-hr

Temperature-time factor

STATUS

Within configured project limits

No critical temperature or differential alerts recorded.

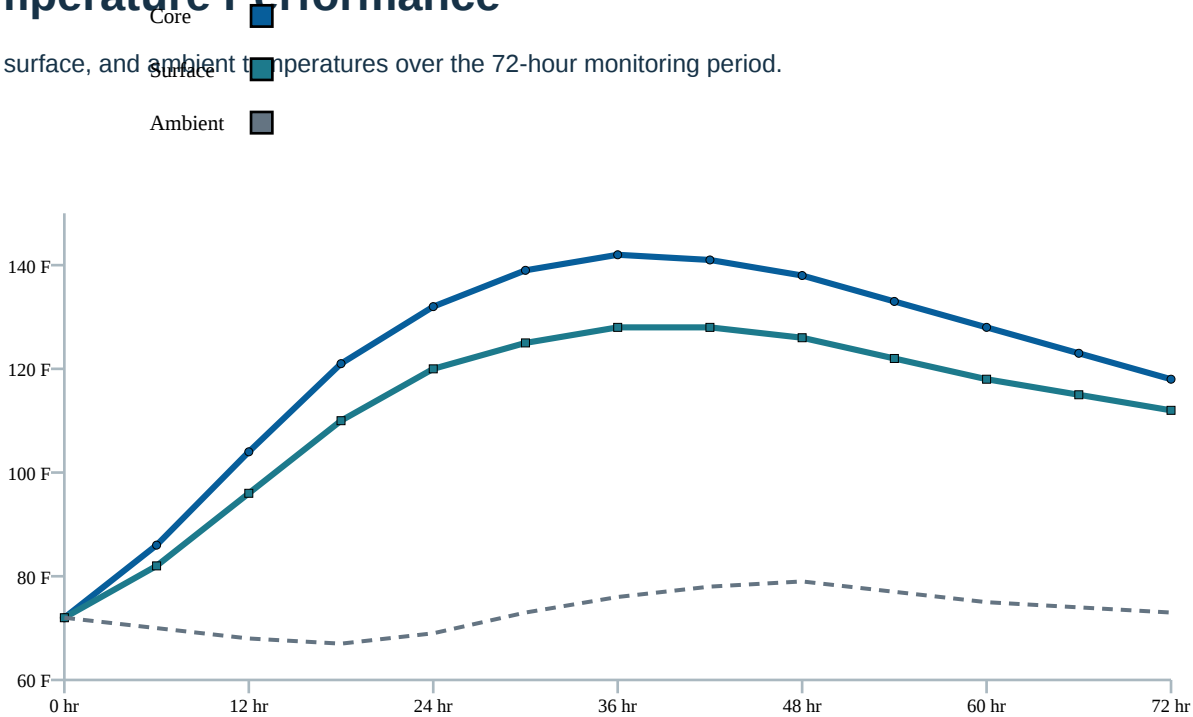
Monitoring Scope

Dual-temperature monitoring captured one reading from the encased sensor body and one from the external probe. In this sample, the external probe is designated **Core** and the encased body is designated **Surface**. FinishSure also incorporated nearby open-weather observations for context.

Important: The temperature-time factor is provided for maturity monitoring and project documentation. It is not a compressive-strength estimate. PSI may only be reported when the project team supplies a valid, project-specific maturity calibration.

Temperature Performance

Core, surface, and ambient temperatures over the 72-hour monitoring period.



Heat rise The core temperature increased from 72 F at placement to 132 F at 24 hours.	Peak The highest sample core temperature was 142 F at 36 hours.	Cooling Core and surface temperatures declined gradually after the peak.
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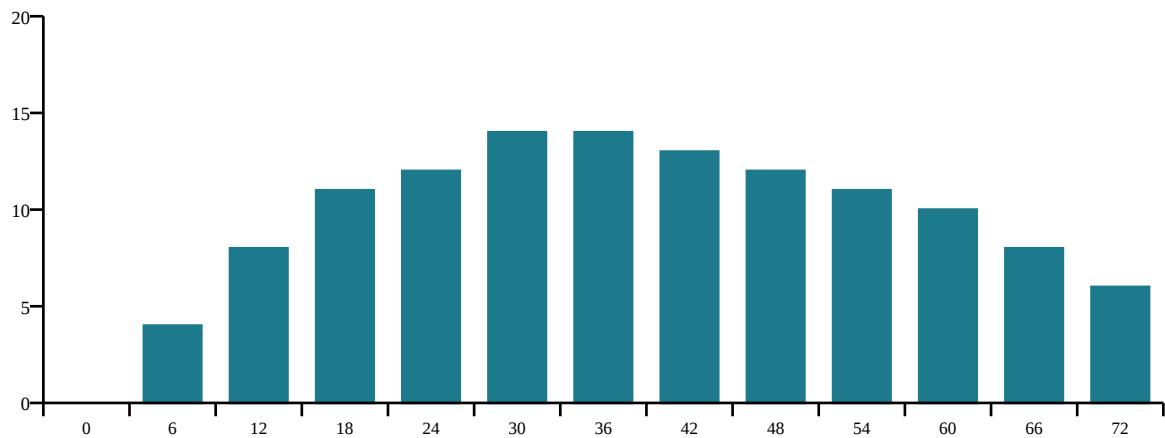
Temperature-Time Factor

FinishSure accumulated the temperature-time factor continuously from the timestamped temperature record. For this illustrative sample, the cumulative value at 72 hours is **8,430 F-hours above a 32 F datum**. The project may specify a different datum, monitoring duration, or reporting interval.

Temperature Differential & Weather Context

The differential chart compares core and surface readings. Weather data is provided as context and is not a substitute for direct concrete measurements.

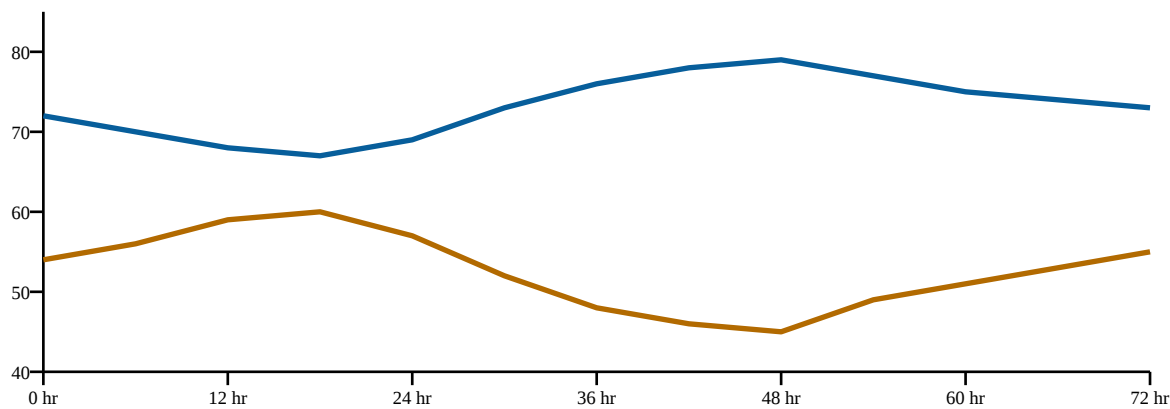
Core-to-Surface Differential



Maximum differential: 14 F
Sample configured warning threshold: 20 F. Sample configured critical threshold: 35 F.

Nearby Weather Conditions

Ambient temp (F) 
Relative humidity (%) 



Alerts, Data Quality & Monitoring Configuration

Alert History

Timestamp	Condition	Reading	Disposition
Jul 22, 2026 10:00	Monitoring started	72 F core / 72 F surface	Informational
Jul 23, 2026 10:00	24-hour status	132 F core / 120 F surface	Normal
Jul 23, 2026 22:00	Peak temperature observed	142 F core	Normal
Jul 25, 2026 10:00	72-hour report point	118 F core / 112 F surface	Normal

Data Quality

Measure	Sample result
Expected reporting intervals	145
Received reporting intervals	144
Data completeness	99.3%
Longest reporting gap	60 minutes
Sensor status at report end	Online / normal
Gateway communications	Normal

Monitoring Equipment

Cellular LoRaWAN Gateway Dusun DSGW-014 Sample asset ID: FS-GW-00124	Dual Temperature Concrete Sensor Dragino LHT65N Sample asset ID: FS-CT-00318
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Detailed Sample Readings

Elapsed	Core F	Surface F	Differential F	Ambient F	RH %
0 hr	72	72	0	72	54
6 hr	86	82	4	70	56
12 hr	104	96	8	68	59
18 hr	121	110	11	67	60
24 hr	132	120	12	69	57
30 hr	139	125	14	73	52
36 hr	142	128	14	76	48
42 hr	141	128	13	78	46
48 hr	138	126	12	79	45
54 hr	133	122	11	77	49
60 hr	128	118	10	75	51
66 hr	123	115	8	74	53
72 hr	118	112	6	73	55

Report Notes & Limitations

- This document contains illustrative sample data and is provided only to demonstrate the format of a FinishSure concrete monitoring report.
- Project limits, alert thresholds, datum temperature, reporting interval, and monitoring duration are configured for each project and may differ from the sample values shown here.
- FinishSure documents measured conditions and the temperature-time factor. FinishSure does not certify concrete acceptance, curing adequacy, structural performance, or compressive strength.
- Compressive-strength estimation requires an approved, project-specific maturity relationship developed from the actual concrete mixture in accordance with the project specifications and applicable testing procedures.
- Final interpretation and construction decisions remain the responsibility of the project engineer, concrete supplier, testing agency, general contractor, and other authorized project professionals.

Prepared by FinishSure

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