

Kraft Curing Systems GmbH, 49699 Lindern, Germany

Pioneering Innovation in Concrete Curing

Kraft Curing Systems is proud to be a technology leader in concrete curing. As a team dedicated to innovation, they are excited to share their latest advancements, including the Match-Cure System with Predictive Maturity, the E-Cure System, and the CO₂ TestCube. Additionally, as Kraft Curing Systems prepares for bauma 2025, they look forward to showcasing their cutting-edge solutions, alongside the expansion of their operations with the new Logistics and Competence Center at the headquarters in Lindern, Germany, set to break ground in summer 2025.

Expanding for the Future

Beyond product innovations, Kraft Curing Systems is making a significant investment in their future with the construction of a new Logistics and Competence Center, set to start in summer 2025. This facility will serve as a central hub for logistics, production, and technical innovation, allowing for expanded capabilities and the development of curing solutions such as the patented and one-of-a-kind Kraft® Racks. The new Competence Center will also provide hands-on technical training and workshops, reinforcing the dedication to knowledge-sharing and industry education. This expansion will enable Kraft Curing Systems to not only increase their production capacity but also strengthen their ability to support customers worldwide with advanced solutions and expert guidance.



Site of the future expansion of the Kraft Curing Headquarters.

Concrete Curing Innovations

One of the most exciting recent breakthroughs is the Match-Cure System with Predictive Maturity Control, designed to provide real-time data on concrete strength development. This system allows manufacturers to optimize their production processes, reduce curing times, and improve overall efficiency by predicting the maturity and performance of concrete with unparalleled accuracy. Predictive maturity control enables users to set necessary strength and allotted time, automatically allowing the system to determine the best curing process.

Match-Cure with Predictive Maturity Control provides real-time curing monitoring, allowing users to track concrete strength gain as it occurs. It enhances precise production planning by forecasting the exact time for detensioning or demolding, eliminating guesswork, and reducing errors. The system automatically adjusts the curing profile based on the required maturity and strength, ensuring consistent results.

By implementing Predictive Maturity, manufacturers can benefit from quick reaction alerts if curing is delayed, allowing them to make immediate adjustments. This system also helps save time and personnel costs by enabling production teams to plan more efficiently, ensuring workers are available precisely when needed. Additionally, energy savings are



The predictive maturity control option for the Match-Cure Quality Control System allows producers to decide when the product is ready for demoulding or detensioning.



A retractable enclosure with integrated vapor curing in action.

achieved by avoiding unnecessary heating and curing durations, significantly lowering operational expenses.

Another significant advancement is the E-Cure System. This electric-powered curing system provides consistent and controlled heating, accelerating the curing process while reducing energy costs. With radiant heating units placed underneath molds, beds, or forms, E-Cure ensures uniform curing without the need for fossil fuels, making it both an effective and sustainable solution for concrete production.

In line with the commitment to sustainability, Kraft Curing Systems introduced the CO₂ TestCube, a test chamber that evaluates the sequestration potential of CO₂ in concrete products. The TestCube also enables users to test with heat and humidity, paving the way for a more sustainable future in the industry. This innovative tool allows manufacturers to assess how CO₂ can enhance strength and quality, reduce carbon footprints, and contribute to more environmentally friendly building practices.

The Pulse of Innovation on Display at bauma 2025

The Kraft team is looking forward to connecting with customers, partners, and industry professionals at bauma, showcasing a range of solutions. One of the key highlights at booth 12.9 will be the aforementioned Match-Cure with Predictive Maturity, an advanced system that takes quality control to the next level by automatically determining the optimal curing process for the earliest possible detensioning and demolding.

Visitors will also be able to see the Retractable Enclosures with Vapor Curing, which provide an economical and weatherproof solution while integrating vapor curing and air circulation systems to ensure optimal curing conditions.

Another highlight is the Containerized ThermalCure®, a pre-plumbed and pre-wired system that accelerates curing through radiant heat emitted from fin-tube pipes



A look back at booth 12.2 at the 2022 bauma.

For those looking to experience an optimized curing climate firsthand, the operational Kraft® Racks Curing Chamber will be available at booth b12.2, allowing visitors to step inside and witness the patented curing system in action. Kraft Curing Systems will also showcase real-world applications of their curing technologies through a series of “Curing Systems in Action” videos, illustrating how their solutions fit into different concrete production processes at booth b2.150 between halls b1 and b2.

Beyond these technological advancements, Kraft Curing Systems will highlight their commitment to sustainability with CO₂ curing. Additionally, the renewable energy solutions will be on display, featuring high-efficiency stainless steel heat exchangers that recycle warm air, cut heating costs by up to 75%, and provide enhanced humidity control.

A Commitment to Excellence

“At Kraft Curing Systems, we are committed to pushing the boundaries of curing technology while supporting our customers with the best solutions available,” said Michael Kraft. “With our latest innovations and the expansion of our operations, we are excited to shape the future of concrete curing. As Bauma 2025 approaches and the Logistics and Competence Center nears its groundbreaking, we remain at the forefront of the industry, driving progress and setting new standards in concrete curing technology.” ■

FURTHER INFORMATION



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