



Ucrete® Industrial Flooring
Solutions for the Dairy
and Milk Products Industry



About Master Builders Solutions.

Building on a century of construction experience. Ucrete® is brought to you by Master Builders Solutions. This comprehensive portfolio of products from Master Builders Solutions delivers chemical solutions for the construction, maintenance, repair and renovation of structures.

The Master Builders Solutions brand is built on more than 100 years' experience in the construction industry. All our solutions are designed to drive business success and enable sustainable construction.

Our network of construction experts leverage global Master Builders Solutions technologies, as well as in-depth local knowledge and a wealth of experience. They'll combine the right elements from our portfolio to solve each specific construction challenge.

Our international technical experts work collaboratively with our local sales team to ensure our solutions are always tailored to meet local conditions.

The Master Builders Solutions portfolio includes:

- Concrete admixtures
- Cement additives
- Chemical solutions for underground construction
- Sealants and waterproofing solutions
- Concrete repair and protection products
- Performance grouts and flooring solutions.

Tailored solutions for dairy businesses.

Master Builders Solutions partners with some of the leading companies in the Dairy and Milk Products industry, providing individual tailored solutions for each customer.

As a result, our flooring products help to prevent the downtime associated with other shorter-lived systems. Our repair products too can be installed and cured quickly, ensuring minimal disruption.

When you choose Ucrete, you can be confident that you are receiving a high quality system that will deliver long-lasting benefits for your business.





Flooring solutions for the Dairy and Milk Product Industry.

Setting the standard in first world food safety. The need to feed a growing global population is having a major impact on the production of milk and milk-related products. From cheese and yogurt to long-life and powdered products, consumption is on the increase, bringing both challenges and opportunities for producers.

Rapid urbanization has ensured that more milk products are being created, processed and transported than ever before. Globalized delivery has led to higher expectations in food safety and the adoption of first world processes and systems.

The processing of milk requires the very highest levels of hygiene. With tainted health products posing a significant health risk, the need for disinfectable facilities is paramount. Maintaining hygienic flooring is an important priority.

Unique challenges. Unique solutions.

The floors in dairy facilities face some unique challenges. They need to be able to withstand urine, faeces and field muck, as well as the heavy abrasion of hooves. They're also exposed to lactic acid from milk and sterilization chemicals.

These elements combine to form a very harsh environment for the equipment and structure, so it's important to choose specialized construction materials that can withstand the conditions.

Ucrete. The industry benchmark.

Whether renovating old buildings or designing new ones, plant managers should look for durable products that can cope with acidic materials, continually wet floors, cleaning chemicals and high capacity pasteurizers. Products like Ucrete.





Ucrete®. Designed for challenging environments.

A world leader in performance flooring. Ucrete is one of the most widely used cementitious polyurethane flooring materials in the dairy industry globally. It helps to ensure that floors within processing plants are safe, secure and sanitary.

Production downtime in the Dairy and Milk Products industry is costly, so it's essential to find a solution that limits maintenance. For many years now, that solution has been Ucrete performance flooring.

Ucrete is a polyurethane concrete surfacing product that was developed in the 1960s and quickly became a standard for floors in chemical plants. Since then, this innovative system has been refined for use in many more applications.

Ucrete is proven to deliver the sanitary conditions demanded by milk preparation processes. It can withstand the application of cleaning chemicals, cope with both high and low temperatures and provide a long, dependable service life.

Just some of the benefits of Ucrete:

- Unaffected by temperatures that would cause delamination and failure in other flooring products.
- Water-based and safely applied to damp substrates reducing downtime during repairs.
- Biologically inert and non-tainting, so production can continue in other areas during installation.
- Helps prevent the growth of bacteria when properly cured.
- Seamless and grout-free making ongoing sterilization simple.
- Steam cleanable and disinfectable to the same level as stainless steel.
- A slip-resistant and safe working surface.



Ucrete can be installed in a range of textures and thicknesses, and 'mixed and matched' to cope with the expected level of chemical exposure. Depending upon a facility's production process, Master Builders Solutions will suggest a solution that provides the optimal level of health and safety.

Flooring for all parts of the facility.

Master Builders Solutions also provides a range of alternative floor systems for other parts of the facility such as warehouses, laboratories or offices. The MasterTop® range of polymer floors is ideal for areas such as raw materials stores, quality control laboratories and finished goods storage.

In addition, Master Builders Solutions offers a range of dry-shake products that are installed when the concrete is placed. The installed floor looks like a well-finished concrete floor, but has excellent impact resistance and more than five times the abrasion resistance of a conventional concrete floor.



How else can we help?

Repairing and renovating existing flooring. Master Builders Solutions has a range of products that can renovate significantly damaged or degraded floors in dairies and milk processing facilities – even if these existing floors did not use the Ucrete® system.



For renovation purposes, the Ucrete system can be combined with the MasterEmaco® trafficable repair products, the MasterBrace® strengthening system and the MasterInject® repair products. These will enable the facility to be returned to its original design condition before the application of a new floor.

To reduce construction time, Ucrete can be installed on new concrete within 3-5 days (depending on temperature), and on newly repaired concrete within 2-4 days, (depending on temperature), keeping production downtime to a minimum.

Collecting and treating waste properly.

In many places where we operate, there is a legal requirement to treat waste on site. For this reason, we have designed innovative products to help us collect and treat waste – and keep waterways clear.

The MasterProtect® range of corrosion prevention linings are the ideal solution for the waste treatment areas within dairies and milk processing facilities. They are unaffected by flocculation, clarifying and pH control chemicals, providing peace of mind for facilities managers.



Master Builders Solutions for the Dairy and Milk products Industry.

MasterAir®

Complete solutions for air entrained concrete

MasterBrace®

Solutions for concrete strengthening

MasterCast®

Solutions for the manufactured concrete product industry

MasterCem®

Solutions for cement manufacture

MasterEmaco®

Solutions for concrete repair

MasterFinish®

Solutions for formwork treatment and surface improvement

MasterFlow®

Solutions for precision grouting

MasterFiber®

Comprehensive solutions for fiber reinforced concrete

MasterGlenium®

Solutions for high performance concrete

MasterInject®

Solutions for concrete injection

MasterKure®

Solutions for concrete curing

MasterLife®

Solutions for enhanced durability

MasterMatrix®

Advanced rheology control for concrete

MasterPel®

Solutions for water tight concrete

MasterPolyheed®

Solutions for mid-range concrete

MasterPozzolith®

Solutions for water-reduced concrete

MasterProtect®

Solutions for concrete protection

MasterRheobuild®

Solutions for high strength concrete

MasterRoc®

Solutions for underground construction

MasterSeal®

Solutions for waterproofing and sealing

MasterSet®

Solutions for set control

MasterSure®

Solutions for extraordinary workability retention

MasterTop®

Solutions for industrial and commercial floors

Master X-Seed®

Advanced accelerator solutions for concrete

Ucrete®

Flooring solutions for harsh environments



Ucrete is certified as suitable flooring systems for use in food and beverage facilities in accordance with the standards of Hazard Analysis and Critical Control Points (HACCP) International's Food Safety Certification Systems.



Ucrete conforms to The Leadership in Energy & Environmental Design Green Building Rating System LEED® being sustainable and environmentally friendly flooring materials.



Ucrete floors have obtained the Indoor Air Comfort Gold certificate from Eurofins, with the low levels of emissions to the air and non-tainting properties.



Ucrete complies with the U.S. Department of Agriculture (USDA) standards for use in federally inspected meat and poultry plants in the USA.

Contact us:

Australia 1300 227 300

India +91 8657906776

Indonesia +62 21 893 4339

China +86 21 2029 3910

Singapore +65 6232 4899

Japan +81 467 84 9640

Malaysia +60 3 3082 1000

For countries not listed, please contact our regional office at:

Telephone: +65 6232 4888

www.master-builders-solutions.com/en-asiapacific

The data contained in this publication are based on our current knowledge and experience. They do not constitute the agreed contractual quality of the product and, in view of the many factors that may affect processing and application of our products, do not relieve processors from carrying out their own investigations and tests. The agreed contractual quality of the product at the time of transfer of risk is based solely on the data in the specification data sheet. Any descriptions, drawings, photographs, data, proportions, weights, etc. given in this publication may change without prior information. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed (02/2014).

® = registered trademark of a MBCC Group member in many countries of the world