



# Ucrete® Industrial Flooring

Solutions for the Dairy  
and Milk Products Industry



## About Master Builders Solutions from BASF.

**Building on a century of construction experience.** Ucrete® is brought to you by Master Builders Solutions. This comprehensive portfolio of products from BASF 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 BASF 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.**

BASF 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 disinfected 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.

For many years, **Ucrete®** has been recognized as the **benchmark in the industry**, for the lasting protection it gives to the floors in floors in dairies and milk processing facilities.





# 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, BASF will suggest a solution that provides the optimal level of health and safety.

## **Flooring for all parts of the facility.**

BASF 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, BASF 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.** BASF 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 from BASF for the Poultry 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.

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