



Flooring Solutions

Durable Industrial and Commercial Floors
supporting your business

 **BASF**

The Chemical Company

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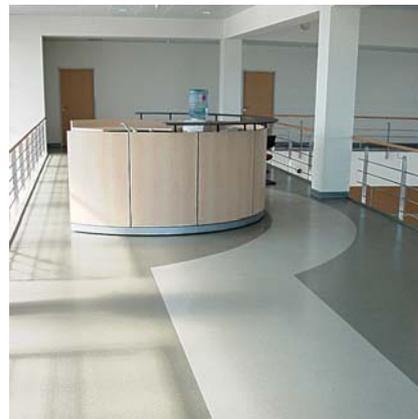
High Performance Industrial and Commercial Floors

BASF's unsurpassed range of high performance cementitious, epoxy and polyurethane industrial and commercial flooring products have been designed to withstand even the toughest environments.

From the **Mastertop**® range of 'dry shake' cementitious surface hardeners and toppings, to roll-coat clear or coloured epoxy and polyurethane-based floors, through to the 'super tough' extra heavy-duty **Ucrete**® range, BASF has an industrial flooring solution to meet your needs.

Additionally the range includes both **anti-static** and **electro-static dissipative floors** for the protection against explosion or damage to sensitive electronics.

BASF's wide range of high performance floors used in warehouses, workshops, food processing and beverage manufacture, heavy industrial sites, aircraft hangers, shops, restaurants and offices, deliver quality and performance that has been relied upon for more than 70 years.





Mastertop® Cementitious Floors

Designed for application during construction, BASF's range of Mastertop® cementitious, dry shake applied surface hardeners give **added life and durability**

to concrete floors. Developed during the 1930's, this technology has had a constant place in the industrial landscape and provides floors that have superior abrasion and impact resistance. These are the heavy industrial floors of choice and find their ways into the manufacturing and servicing areas of world leading motor vehicle, truck and mining companies.



The **Mastertop® cementitious floor** range includes a natural aggregate surface hardener that has been specifically developed for use in medium duty workshop or warehousing operations environments. Available as a **natural concrete colour or coloured** to improve aesthetics,

it can also be produced as a **light reflective** version that reduces the requirements for additional lighting without compromising the abrasion resistance.

Another version uses high MOH's scale hardness aggregates like **emery** or **silicon carbide** to create **very high abrasion resistance** with a **non-skid** micro texture that is ideal for constantly wet areas. Used extensively in coolrooms and freezers, this product will stand the highly aggressive environments these installations provide. Specified worldwide by food companies and supermarket chains, it is a standard in the industry.

For the heaviest of industries, a Mastertop® has been formulated using specially treated cast iron aggregate to impart superior impact and abrasion resistance to



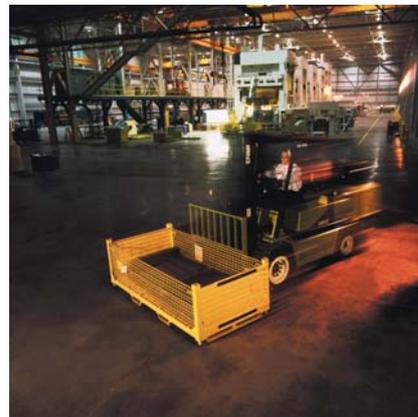


the floors. The use of the **cast iron aggregate** makes these metallic floors capable of **withstanding constant traffic in abrasive environments** such as mineral processing, metal fabrication and waste transfer stations.

These floors will outlast the builder of the premises with many still in use after 40 and 50 years. Available in a **range of colours** that will last as long as the floor, as well as a **light reflective version** to reduce the need for additional lighting, these floors are the choice of heavy vehicle workshops and metal fabricators worldwide.

Unfortunately, not all installations allow for the use of a **dry shake floor** at the time of construction, and thus BASF manufactures a range of topping screeds to meet the needs of even the most demanding industrial and commercial environments. These **metallic aggregate toppings** can be applied to sound concrete to provide the highest level of abrasion resistance. In some industries the level of protection provided by the dry shake floors (generally a layer of 3-5mm) is not sufficient for very aggressive environments. Tracked vehicles like bulldozers and earth moving equipment will all require maintenance at some time or other, and the workshop floor needs to be able to cope with the very high point loads of the tracks.

The metallic toppings with a thickness of 20-40mm are able to resist damage by the largest bulldozers in service. These products find their place within the mining industry and the military in their servicing and maintenance areas. Other applications are waste transfer stations, scrap metal processing and ore dumps.





Mastertop® Resin Floors

BASF's resin flooring range incorporates both **epoxy** and **polyurethane-based floors**. These products are available in a wide range of colours and textures to suit most industrial uses. The combination of **aesthetics, cleanability and safety** make the floor owners life easier by being able to choose a combination of products to meet their needs. These products can be applied as a simple coating to concrete to reduce the possibility of dusting, as well as to create an impervious working floor.



These coatings can be applied in a number of textures to give extra slip resistance in wet areas or to provide improved slip resistance for forklifts. As the aggressiveness of the environment increases, so then does the thickness of the floor from less than 1/2 mm to 2-3 mm for longer lasting and harder wearing floors. These toppings can also be

applied in a range of textures to improve safety and also colours to reduce the required amount of artificial light. The selection of the resin binder will depend on a number of factors such as the chemicals on the floor, the level of abrasion, the amount of water or slippery waste on the floor and the desired textures.

Both the epoxy based floors and the polyurethane based floors have their place in many industries with the **polyurethane often favoured for clean room duties and the epoxies for warehouse or processing plants**. The majority of the flooring products are low VOC, non solvent-containing, with water-based products also available. The selection of which floor to chose will be supported by our BASF flooring experts who can advise on the most appropriate floor surface for your industry.





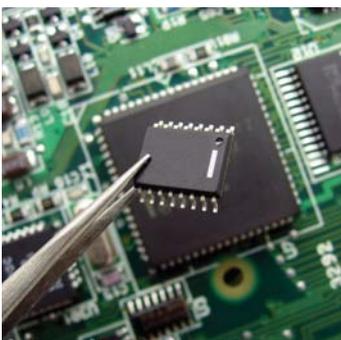
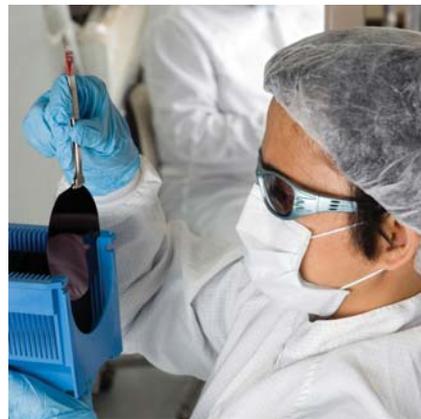
Mastertop® Anti Static and Electrostatic Dissipative Flooring Solutions

Within all our floor ranges we have developed products that meet the severe service and safety needs of both the processing and electronics industries. Industries that regularly handle solvents or other flammable materials or those processing fine dusts have an ever present danger of fire or explosion. Guarding against this eventuality is a combination of processes and products and the floor can play an integral part in the control of such hazards.

When handling solvents, a spark can trigger an explosion or fire, creating the danger of possible loss of life or property. To guard against this the anti static floors work to draw static build up away from the floor and discharge it to earth. This reduces the risk of spark and thus in combination with other mitigations will eliminate this risk. In our **dry shake range** we have an integral anti static floor product when you need **high impact and abrasion resistance** as well as an anti static floor. In the resin flooring range, there are both **epoxy-based** and **polyurethane-based anti-static floors** and our **Ucrete® range** also has an anti static floor.

Many pieces of equipment now used in everyday life contain printed circuits and these are particularly susceptible to damage by electro static discharge. This electro static discharge is at a much lower voltage than that required to ignite a solvent or a dust cloud, but can built up between humans and the circuit board causing damage to the printed circuits. In the manufacture and repair of these circuits they need to be protected from this static discharge and the highly conductive nature of the floor is

essential to ensure that this does not contribute to an errant charge. These high tech products are designed to complement the whole protective scheme including the earthing of the work space and the people working there. The need for these floors increases with the increasing use of printed circuits in everything from cars to computers to microwave ovens.







Mastertop® Commercial Flooring Solutions

Building on the know how to make long lasting industrial floors, BASF has developed a range of commercial flooring solutions suitable for many applications from building foyers, to high grade shops and health facilities.

The range begins with cement based self levelling underlays to create an even and flat substrate for the installation of carpet and vinyl. Today's high grade vinyls require absolute flatness and evenness to prevent premature wearing and to give the maximum aesthetics. These self levelling fast curing products are the choice of carpet and vinyl layers world wide where the outcome is critical.

Hard self levelling coloured **epoxy** or **polyurethane floors** are often chosen to complement the decor of many shops and display areas where the ability to **withstand high traffic movements or static loads** is necessary. Available in limitless ranges of colours, the designer can match his most intense colour schemes with ease and create the image desired. The systems also include **terrazzo finishes**, which allow for bright colours and thin section so that a terrazzo look can be installed on almost any concrete substrate without adding substantial weight to the building. These floors can be as easy care as vinyl and last for many years.

Superior polyurethane technology has led to the development of the **Mastertop® comfort floor**. This floor is unique in that it is warm to the touch, **resilient yet highly abrasion resistant**. Ideal for floors in nursing homes, restaurants, offices and even gymnasiums where reduction of noise and comfort under foot is required. These can be coupled with our unique antibacterial coatings to enhance their already easy cleanability. The coatings are designed to destroy 99.9% of bacteria on contact and can reduce the spread of disease.





UCRETE® Polyurethane Concrete Flooring Solutions

Widely regarded as some of the toughest and most versatile flooring solutions available today, the high performance Ucrete® flooring range from BASF Construction Chemicals delivers the ideal combination of outstanding strength, superior durability, easy cleaning and attractive appearance.

Initially developed for the food, beverage and pharmaceutical industries over 30 years ago, Ucrete® floors are **resistant to a wide range of chemicals** including acids, alkalis and solvents, and provide excellent impact and abrasion resistance. Its ability to **withstand temperature extremes** and repetitive freeze-thaw cycles not only makes Ucrete® ideal for use in cool rooms and refrigerated environments, it also means that it is able to stand up to the punishment of regular cleaning with steam or boiling water.

Ucrete® meets all requirements for EC directives on food and plant hygiene, as well as those of US regulatory agencies - including the USFDA (Food and Drug Administration). The range of the Ucrete® floors includes attractive non-tainting colours, with smooth floors for dry processing areas or where chemical spills are infrequent. Ucrete® floors are also available with defined profile **slip resistance**, meeting the highest requirements of the food and chemical industries and international standards for slip resistant pedestrian surfaces. Able to cope with many chemicals that will destroy other products, Ucrete® has become the choice of industries, and the standard by which all other floors in the Food and Beverage industries are judged.



Intelligent Solutions from BASF Construction Chemicals

Concresive® - Resin Based Mortars, Adhesives and Injection Systems
Conibase® - PU Based Basement and Below Ground Waterproofing Systems
Conibridge® - PU Based Membranes to Protect Bridge Decks
Conideck® - Hand and Spray Applied Waterproof Membrane Systems
Coniroof® - PU Based Roofing Systems
Emaco® - Concrete Repair Systems
Finestone® - Exterior Insulation and Finishing Systems (EIFS)
Glenium® - For Hyperplasticized Concrete
Masterflex® - Joint Sealants
Masterflow® - Precision and Structural Grouts
Masterpren® - Preformed Membrane Waterproofing Sheets
Masterseal® - Coatings and Waterproofing
Mastertop® - Decorative and Industrial Flooring Solutions
MBrace™ - Composite Strengthening Systems
Meyco® - For Shotcrete and Spraying Equipment
PCI® - Tile Fixing and Cement Underlays
Pozzolith® - For Water-reduced Concrete
Rheobuild® - For Superplasticized Concrete
Rheomix® - For Improved Block Mortars
Rheoplus® - Cost-effective Products for Hyperplasticized Concrete
Ucrete® - Flooring Solutions for Harsh Environments
WABO® - Expansion Control Systems

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 **BASF**
The Chemical Company

BASF is the world's leading chemical company: The Chemical Company. Its portfolio ranges from chemicals, plastics and performance products, to agricultural products, fine chemicals and oil and gas.

As a reliable partner, BASF helps its customers in virtually all industries to be more successful. With its high-value products and intelligent solutions, BASF plays an important role in finding answers to global challenges such as climate protection, energy efficiency, nutrition and mobility.

Further information on BASF is available on the Internet at www.basf.com