

We Create Chemistry for Building Sustainable Environments

A holistic, systems-centric approach to buildings and infrastructure



Making a connection

As an expert in the construction community, you're looking for truly customized solutions tailored to meet each specific project's distinct situation and objectives. **The BASF Center for Building Excellence can help. As the building industry's catalyst to sustainable solutions, the Center for Building Excellence connects you with the valuable information, resources and thought leadership you need to succeed.** This multidisciplinary team of building scientists, architects, engineers and sustainable construction experts thinks beyond the ordinary, adapts to changing conditions and offers insights that trigger innovative approaches to your complex situations.

Collaborating directly with you to explore options and ideas, test theories and apply scientific analysis, our experts can help you create sustainable construction projects that are more energy efficient, more durable, and more comfortable.

As part of our powerful BEYOND.High Performance approach to construction, we help bring integrated solutions to today's construction challenges:



432 Park Avenue NEW YORK, NY







A host of BASF solutions were used to create an environmentally preferable, self-consolidating concrete mixture with a unique bright white appearance. Some of these admixtures included:

- MasterGlenium® 7500 high-range water-reducing admixture
- MasterSure® 1390 air-entraining admixture
- MasterSet® DELVO hydration-controlling admixture
- MasterSure® Z 60 workability-retaining admixture
- MetaMax® a white pozzolanic admixture

Making an impact

Office buildings and manufacturing facilities. Medical centers and schools. Highways, bridges and tunnels. Whatever the project, construction has a critical role in almost every aspect of our lives, impacting the balance of our economy, ecology and society. And, you can find BASF's impact in many of these projects, from the ingredients in building materials, to our own branded products, to our invaluable insight and collaboration.

Examples of our design-assist work:

-  Evaluating material selections to meet and exceed standards for occupant health and performance
-  Enabling clients to create cost-effective solutions for site, building envelope and interior applications in healthcare design
-  Developing a multi-attribute approach to significantly reduce carbon footprint and waste stream for sports and entertainment venues
-  Providing peer review on energy efficient strategies and approaches for government, commercial and institutional projects
-  Helping to reduce construction time and cost with coatings and optimized concrete mixes to mitigate flooring installation issues attributed to vapor drive
-  Assisting global design firms to achieve benchmarks with a holistic, systems approach that contributes to sustainable, affordable, and resilient solutions



Throughout the Built Environment and BEYOND

Our chemistry enables stronger materials, speed of construction, energy savings and improved sustainability.



Commercial

Retail | Office | Mixed Use | Hospitality | High Rise | Manufacturing



Infrastructure

Bridges, Tunnels and Pipelines | Wastewater Treatment | Highways | Power & Energy | Rail



Sports & Entertainment

Stadiums | Casinos | Convention Centers | Museums | Amusement Parks



Health, Science & Technology

Hospitals | Laboratories | Medical Office Buildings | Data Centers | BioTech



Housing

Single-Family | Multi-Family | High Rise Residential



Education

Universities | K-12 | Higher Education

Arthur Ravenal Jr. Bridge CONNECTING CHARLESTON TO MOUNT PLEASANT, SC

BASF solutions helped to enhance the strength and flexibility of the concrete used in this bridge to accommodate structural movement and support heavy volume traffic and high vehicular loading.

- Styrofan® 1186 latex polymer
- Large movement Wabo® Modular expansion joint systems
- Masterflow® 1206 post-tensioning duct grout for highly stressed steel



CONTINUE





BASF
We create chemistry

Commercial Product Spotlight

Florham Park Headquarters

Overview

BASF helps to maximize energy efficiency in commercial buildings via a robust portfolio of insulation materials for roofs, walls and foundations. Our air barrier technologies keep conditioned air inside the structure while our adhesives and sealants help further contribute to airtight construction. Specially formulated admixture systems help reduce carbon footprint, enhance durability and provide water repellency, and our pervious concrete and porous asphalt solutions improve drainage, reducing or eliminating the need for storm water storage. Plus, BASF chemistry found in paints, flooring and finishings helps create products that reduce or eliminate VOCs. And our office and area partitions combine sound transfer control, design freedom and provide quick assembly and installation.



BASF Center for Building Excellence

For more information on these products or to connect about other sustainable building practices, collaborate with us at construction.basf.us/cbe.



MasterFiber® – concrete-reinforcing fiber



Enershield® – air/water-resistive barriers



Neopor® – graphite-enhanced rigid foam insulation

Construction Specifications Institute MasterFormat

BASF products can be found throughout a variety of divisions across the commercial construction industry.

Division 03: Concrete

ELASTOPAVE® Technology: a poured-in-place pervious pavement for pedestrian and light vehicular traffic loads made from locally sourced bonded architectural stone or recycled glass. It filters storm water/pollutants, mimics natural hydrology, can reduce or eliminate retention ponds and minimizes water treatment demand. Less construction site interruption and reduces heat island effect. Excellent option for storm water management.

Green Sense® Concrete: an environmentally preferred, cost-effective concrete with optimized proportions in which supplementary cementitious materials, non-cementitious fillers, or both, are used with special Master Builders Solutions admixtures. Environmental Product Declaration available.

MasterFiber®: various monofilament, fibrillated and macrosynthetic fiber types using polypropylene resins to address shrinkage cracking, flexural strength, finish and durability.

MasterLife® 300D: an integral crystalline capillary waterproofing admixture for concrete. It is designed for use in above- and below-grade applications. A red-pigmented version of MasterLife 300D admixture is also available.

Division 05: Metals

Sandwich Plate System (SPS): Intelligent Engineering has developed SPS over the past 20 years. SPS is a composite material comprising two metal plates bonded with polyurethane elastomercore. It is a structural element that is available now as a stronger, faster-to-install, structural replacement for concrete in all types of applications. SPS is accepted and used by engineers and architects worldwide for projects that include floors, cores and walls for high-rise buildings; stadium and arena grandstands and terraces; new construction or reinstatement of highway and pedestrian bridges; ballistic and blast protection for buildings and structures; sound and vibration control of industrial machinery.

Division 07: Thermal and Moisture Protection

Elastospray® and Elastocoat®: a seamless closed-cell, spray-applied polyurethane foam roofing system for new and existing roofs. The lightweight system improves building energy efficiency and indoor comfort; is applicable over existing substrates saving tear-off costs and waste; and is proven leak free with a long-term warranty offering. It has a long service life, repairs easily, and it can be re-coated and renewed to extend service life 10–30+ years. It also boasts the highest wind uplift resistance.

Enershield® HP and Enershield® I:

one-component, fluid-applied vapor permeable or impermeable air/water-resistive barrier. This waterproof, resilient coating may be spray-, roller-, brush- or trowel-applied directly to approved above grade wall substrates to create a seamless barrier of protection. Air Barrier Association of America (ABAA) evaluated.

Neopor®: A graphite enhanced polystyrene (GPS) based rigid thermal foam insulation that can help mitigate the risk of damage associated with condensation of water vapor inside of wall cavities. With Neopor only air fills the cells. This means Neopors® R value remains stable over time. Neopor is GREENGUARD® GOLD certified for low chemical emissions.

MasterSeal® NP100: high-performance sealant with superior unprimed adhesion to a broad range of substrates, saving material and labor. Paintable, one-component, non-sag, hybrid sealant with excellent movement capability and weathering performance. Ideal for both new construction and restoration.

Platinum CI: exterior cladding system featuring Neopor® advanced insulation technology. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include reinforced air/water-resistive barrier, adhesive, Neopor insulation board, reinforced base coat and 100% acrylic polymer finish. IBC, IRC and IECC listed product.

WALLTITE®: closed-cell, spray-applied polyurethane system combines industry-leading air permeance ratings and a superior insulation R-value to make a significant contribution to building energy efficiency. WALLTITE can be applied inside the cavity or on the building exterior as continuous insulation and an air/weather-resistant barrier. NFPA & ABAA approved.

Wabo® FireShield: unified, fire rated, sound-attenuating, ultraviolet (UV) light stable, thermal- and water-resistant sealant system. Features waterproof silicone faces on each side of a fire-retardant impregnated foam sealant without the need for additional intumescent bellows.

Wabo® SeismicPan: accommodates multi-directional seismic movement, including lateral shear without stress to its components during thermal movement. Meets ADA Guidelines and stays flush during thermal movement and rises upward during a seismic event permitting full movement within the structural joint opening.

Division 09: Finishes

Basotect® Melamine Foam: a lightweight, flexible, open-cell foam that is used in room acoustic products. Basotect-based products have a high absorption capability of sound waves. When left untreated, the sound waves will reflect off of hard surfaces increasing the background noise and decreasing speech intelligibility. Basotect provides a high degree of design freedom as the foam can be easily processed into a variety of different shapes and can be easily colored or combined with different laminates. The foam is also very lightweight, meaning it is very easy to install. With regard to safety, the product contains no fibers, meets NFPA Class A fire ratings without the use of flame retardants, and, when installed in the right proportions, meets the California 1350 indoor air quality standard.

Flexible White Roof Coatings: BASF's Acronal® acrylic dispersions and Quick-Trigger® technology are specifically designed for use in sustainable reflective roof solutions that help contractors protect against "wash-off" from early rain, decrease labor time and broaden the application season. Ask about BASF's Brilliance™ Roof Coating Program, a holistic approach to acrylics used in roof coatings.

MasterTop®: resinous flooring systems combine the ease of maintenance with the toughness and durability required in challenging commercial, institutional, and chemical environments. In addition, the flooring systems can be installed in a variety of attractive colors, finishes and surface profiles.

MasterTop® SRS: methyl-methacrylate (MMA) self-leveling flooring system for use in areas that require a quick curing, decorative floor. Save on labor with one-hour curing time; requires no stripping or waxing which reduces maintenance costs.

MasterTop MV 240FS: moisture vapor barrier that is a rapid curing, VOC compliant, two-component, 100% solids epoxy system for resinous floor coatings. Compatible with MasterTop flooring systems.

Platinum CI Stucco: continuously insulated stucco system featuring Neopor® advanced insulation technology. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include BASF air/water-resistive barrier, Neopor insulation board, lath, BASF stucco base and finish coat. IBC, IRC AND IECC listed product.

www.construction.basf.us/cbe | (888) 307-6602 | cbe@basf.com

LEED® is a registered trademark of the United States Green Building Council. GREENGUARD® is a registered trademark of UL LLC. All other trademarks are the property of BASF Corporation. © 2015 BASF Corporation 0515 (CMCA BASF21043) MTG BF-10365 Rev. 7/2015

BASF
We create chemistry

Overview

BASF solutions enhance a variety of infrastructure projects, from watertight parking structures to sound dampening for multi-level segmental bridge structures. Our advanced polymer modifier, corrosion inhibitors, accelerators, retarders, silica fume, water reducers, superplasticizers and air entrainers allow for faster installations with longer-lasting results. Our specially formulated admixtures help increase recycled material used to reduce the carbon footprint of concrete, while our accelerating and retarding admixtures enable year-round concrete construction.



BASF Center for Building Excellence

For more information on these products or to connect about other sustainable building practices, collaborate with us at construction.basf.us/cbe.

Construction Specifications Institute MasterFormat BASF products can be found throughout a variety of divisions across the infrastructure sector.

Division 03: Concrete

4x4™ Concrete System: an innovative, patented (U.S. Patent No. 6,858,074) technology called 4x4 Concrete System is a unique method for achieving high-early strength concrete. The name 4x4 Concrete originates from concrete that obtains at least 400 psi flexural strength within four hours of placement, a requirement of the California Department of Transportation. Some applications, however, do not require this level of performance. The flexibility of 4x4 Concrete is such that it can be modified to meet many different specified strength criteria simply by adjusting the mixture proportions and admixture dosages.

Green Sense® Concrete: an environmentally preferred, cost-effective concrete with optimized proportions in which supplementary cementitious materials, non-cementitious fillers, or both, are used with special Master Builders Solutions admixtures. Environmental Product Declaration available.

MasterAir®: air-entraining admixtures facilitate the development of a stable air void system within concrete that increases the durability of the concrete. Designed for use in low-slump concrete mixtures and will meet the requirements of ASTM C 260, AASHTO M 154 and CRD-C13.

MasterBrace®: an innovative repair and strengthening system based on fiber reinforced polymer composites that provide additional stability to structural elements. It is used directly on the parts where the load-bearing capacity needs to be improved and reinforced strength is required. MasterBrace is also part of our brand of specialty structural repair adhesives for segmental bridge rehabilitation and construction.

MasterEmaco®: offers comprehensive solutions for concrete that has been damaged or deteriorated by changing weather conditions, chloride ions, contaminants and extreme environments. The MasterEmaco portfolio of primers, cementitious and resinous repair mortars and fairing coats make up a complete system approach that is used to substitute deteriorated concrete and re-establish the original strength, structural integrity and aesthetics.

MasterLife®: family of admixtures impart a wide range of properties into concrete that provide resistance to deterioration caused by abrasion, corrosion of steel, alkali silica reaction, sulfate attack and drying shrinkage cracking.

MasterFinish®: imparts a wide range of concrete additives and form release agents to achieve an outstanding surface finish. These unique admixtures are formulated to enhance the appearance of pre-cast, pre-stressed and poured-in-place concrete by allowing easy separation from the concrete surface.

MasterFlow®: the industry's leading range of grouting solutions from BASF that are specially formulated to deliver high-strength structural stabilization. MasterFlow products provide superior strength and precision alignment even in the most demanding of environments.

MasterGlenium®: a product offering from BASF comprises new generation high-range water-reducing admixtures that are specially formulated for applications where slump retention, high-early strengths and durability are required. Concrete mixtures containing these premier products can be optimized for delivery in remote locations and for use in hot and cold climates. Meets ASTM C494/C494M requirements for Type A, water-reducing, and Type F, high-range water-reducing, admixtures.

MasterProtect®: a system that includes a range of high-performance water repellents, elastomeric and high build anti-carbonation and chemical-resistant coatings that counter challenging weather conditions, environmental contaminants and corrosive elements. The portfolio also includes a special range of corrosion inhibitors such as galvanic anodes and surface-applied corrosion inhibitors that are formulated to permeate the concrete and control corrosion directly at the steel reinforcement.

MasterPolyheed®: a non-chloride, mid-range water-reducing admixture formulated for superior workability and finishing. The most versatile and cost-effective of the plasticizers, it improves concrete performance with excellent early strength and rheology. Meets ASTM C 494/C 494M requirements for Type A, water-reducing, and Type F, high-range water-reducing, admixtures.

MasterSet®: a ready-to-use, liquid admixture is used for making more uniform and predictable high-performance concrete. MasterSet admixture retards setting time by controlling the hydration of Portland cement and other cementitious materials while facilitating placing and finishing operations. MasterSet admixture meets ASTM C 494 requirements for Type B and Type D, water-reducing and retarding, admixtures.

Styrofan®: incorporating latex in concrete results in an impermeable polymeric film throughout the concrete matrix, improving adhesive bond strength, flexural strength and tensile strength. It also reduces water to cement ratio, chloride ion permeability and rebar corrosion, which all together significantly extends the life of a bridge deck by as much as three times compared to a conventional bridge deck overlay.

Division 05: Metals

Sandwich Plate System (SPS): Intelligent Engineering has developed SPS over the past 20 years. SPS is a composite material comprising two metal plates bonded with polyurethane elastomer core. It is a structural element that is available now as a stronger, faster-to-install, structural replacement for concrete in all types of applications. SPS is accepted and used by engineers and architects worldwide for projects that include floors, cores and walls for high-rise buildings; stadium and arena grandstands and terraces; new construction or reinstatement of highway and pedestrian bridges; ballistic and blast protection for buildings and structures; sound and vibration control of industrial machinery.

Division 07: Thermal and Moisture Protection

Elastoshore®: polyurethane system for the offshore industry. Ensures perfectly stable pipeline connections even under extreme conditions such as the deep sea. Application such as bend stiffeners, strakes, field joints, bend restrictors and cable protectors offer excellent thermal insulation values, are corrosion proof and have a long service life.

Wabo® FabroSpan: an expansion joint system was specifically developed for the Ministry of Transportation of Ontario bridge market. The system incorporates a top removable clamping bar exposed to traffic. The bolting system is accessible on the top surface and is designed to compress the seal-locking lug between steel sections to provide a watertight seal.

Wabo® X-cel Modular: is an expansion joint specifically designed to accommodate structural movements in all directions. This system will satisfy thermal, high velocity and multi-directional movement requirements for both seismic and/or multi-directional movement applications.

Styrofan® for latex modified concrete



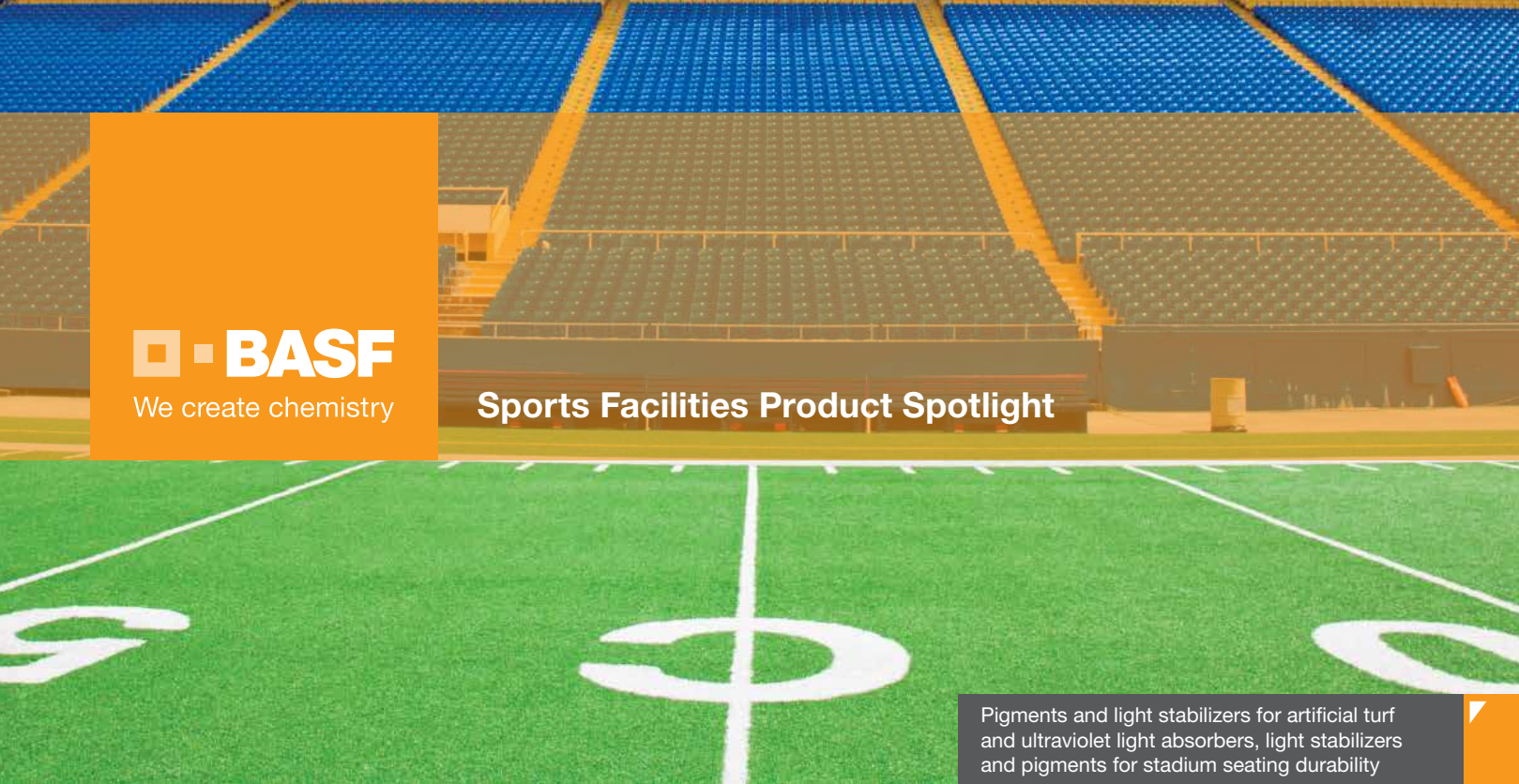
Wabo® expansion joint systems



MasterGlenium® high-range water-reducing admixture



MasterEmaco® concrete solutions and Wabo® expansion joint systems



Sports Facilities Product Spotlight

Pigments and light stabilizers for artificial turf and ultraviolet light absorbers, light stabilizers and pigments for stadium seating durability

Overview

Sports and entertainment facilities are designed to safely accommodate large crowds and lots of movement. With a variety of solutions that leverage sustainable aspects of design and construction, BASF really stands out in the crowd. Our products help improve the fan experience while reducing maintenance and operating costs. Whether it's the chemical admixtures that help produce high quality and durable reinforced and pre-cast concrete; the deck coatings and performance flooring designed for durability and quick turnaround; or the expansion joints that provide critical life safety and durability; BASF construction products are a key component in a wide variety of structures, from stadiums to concert halls.



BASF Center for Building Excellence

For more information on these products or to connect about other sustainable building practices, collaborate with us at construction.basf.us/cbe.



MasterSeal® - traffic membrane system



MasterSeal® NP150 Sealant for vertical and horizontal joints



Sound-absorbing baffles made with Basotect® material

Construction Specifications Institute MasterFormat

BASF products can be found throughout a variety of divisions across the sports and entertainment sectors.

Division 03: Concrete

Green Sense® Concrete: an environmentally preferred, cost-effective concrete with optimized proportions in which supplementary cementitious materials, non-cementitious fillers, or both, are used with Master Builders Solutions admixtures.

MasterLife®: family of admixtures impart a wide range of properties into concrete that provide resistance to deterioration caused by abrasion, corrosion of steel, alkali silica reaction, sulfate attack and drying shrinkage cracking.

Division 05: Metals

Sandwich Plate System (SPS): Intelligent Engineering has developed SPS over the past 20 years. SPS is a composite material comprising two metal plates bonded with polyurethane elastomer core. It is a structural element that is available now as a stronger, faster-to-install, structural replacement for concrete in all types of applications. SPS is accepted and used by engineers and architects worldwide for projects that include floors, cores and walls for high-rise buildings; stadium and arena grandstands and terraces; new construction or reinstatement of highway and pedestrian bridges; ballistic and blast protection for buildings and structures; sound and vibration control of industrial machinery.

Division 07: Thermal and Moisture Protection

Elastospray® and Elastocoat®: a seamless closed-cell, spray-applied polyurethane foam roofing system for new and existing roofs. The lightweight system improves building energy efficiency and indoor comfort, is applicable over existing substrates saving tear-off costs and waste, and is proven leak free with a long-term warranty offering. It has a long service life, repairs easily, and it can be re-coated and renewed to extend service life 10-30+ years. It also boasts the highest wind uplift resistance.

Enershield® HP and Enershield® I: one-component, fluid-applied vapor permeable or impermeable air/water-resistive barrier. This waterproof, resilient coating may be spray-, roller-, brush- or trowel-applied directly to approved above-grade wall substrates to create a seamless barrier of protection. Air Barrier Association of America (ABAA) evaluated.

MasterSeal® Traffic 1500 Waterproofing System: seamless elastomeric membrane that offers excellent durability and superior abrasion resistance, has no seams that may result in leaks and is skid resistant for increased safety.

Neopor®: A graphite enhanced polystyrene (GPS) based rigid thermal foam insulation that can help mitigate the risk of damage associated with condensation of water vapor inside of wall cavities. With Neopor only air fills the cells. This means Neopor's R value remains stable over time. Neopor is GREENGUARD® GOLD certified for low chemical emissions.

Platinum CI: exterior cladding system featuring Neopor® advanced insulation technology. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include reinforced air/water-resistive barrier, adhesive, Neopor insulation board, reinforced base coat and 100% acrylic polymer finish. IBC, IRC and IECC listed product.

Wabo® Allure Expansion Joint System: meets the interior designer's expectations for minimal sightlines without sacrificing structural performance. For premium floor spaces, suites and concourses.

Wabo® CorridorWrap Interior Wall & Ceiling Expansion Joint Systems: The Wabo® CorridorWrap family of expansion joint systems offers the interior designer aesthetically pleasing options to minimize the sightlines of the expansion joint requirement, allowing the interior to be continuous and alive.

Wabo® Evazote Sealing System: closed cell, low-density sealing element providing a sound-attenuating expansion joint seal for seating bowl treads and risers and concourses. Used independently or with the Wabo SafetyFlex Cover System, the Evazote is a simple and practical means of sealing a structural expansion joint.

Wabo® SafetyFlex Expansion Joint Cover: a durable articulating rubber encapsulated expansion joint cover which can handle every challenge and aspect of the seating bowl and concourse environment. Allows the owner and user the safety and noise attenuation of a rubber cover with the encapsulated strength of steel for durability and functionality year after year.

Wabo® WeatherSeal II Expansion Joint Seal: a silicone-faced, weather-tight foam seal featuring an extensive color palette for wall and interior harmony. Its sound-attenuating characteristics make it an ideal expansion joint material choice for stadiums, ballparks and public spaces.

Division 09: Finishes

Basotect® Melamine Foam: lightweight, flexible, open-cell foam that is used in room acoustic products. Basotect-based products have a high absorption capability of sound waves. When left untreated, the sound waves will reflect off of hard surfaces increasing the background noise and decreasing speech intelligibility. Basotect provides a high degree of design freedom, as the foam can be easily processed into a variety of different shapes and can be easily colored or combined with different laminates. The foam is also very lightweight, meaning it is very easy to install. With regard to safety, the product contains no fibers, meets NFPA Class A fire ratings without the use of flame retardants, and, when installed in the right proportions, meets the California 1350 indoor air quality standard.

MasterTop® SRS: resinous flooring systems combine the ease of maintenance with the toughness and durability required in challenging commercial, institutional, and chemical environments. In addition, the flooring systems can be installed in a variety of attractive colors, finishes and surface profiles.

Flexible White Roof Coatings: BASF's Acronal® acrylic dispersions and Quick-Trigger® technology are specifically designed for use in sustainable reflective roof solutions that help contractors protect against "wash-off" from early rain, decrease labor time and broaden the application season. Ask about BASF's Brilliance™ Roof Coating Program, a holistic approach to acrylics used in roof coatings.

Overview

From medical centers to hospitals to laboratories, BASF helps create healthier and more comfortable environments for patients, technicians and staff. We help keep these critical environments clean and comfortable with a variety of innovative solutions, including anti-microbial flooring, low-VOC paints and sound-absorbing materials. We help provide a healthier bottom line, too, with water-based performance flooring solutions that improve hiding power and provide higher wear resistance making floors easier to clean which reduces the time and cost of cleaning efforts. And our building envelope insulation and air barrier solutions can help reduce energy consumption and operating costs.



BASF Center for Building Excellence

For more information on these products or to connect about other sustainable building practices, collaborate with us at construction.basf.us/cbe.

MasterTop® – epoxy and polyurethane floor coatings

WALLTITE® – closed-cell, spray-applied polyurethane system

Wabo® Seismic SafetyFlex

MasterBrace® – repair and strengthening system

Construction Specifications Institute MasterFormat

BASF products can be found throughout a variety of divisions across the healthcare, science and technology sectors.

Division 03: Concrete

ELASTOPAVE® technology: a poured-in-place pervious pavement for pedestrian and light vehicular traffic loads made from locally sourced bonded architectural stone or recycled glass. It filters storm water/pollutants, mimics natural hydrology, can reduce or eliminate retention ponds and minimizes water treatment demand. Less construction site interruption and reduces heat island effect. Excellent option for storm water management.

Green Sense® Concrete: an environmentally preferred, cost-effective concrete with optimized proportions in which supplementary cementitious materials, non-cementitious fillers, or both, are used with special Master Builders Solutions admixtures. Environmental Product Declaration available.

MasterBrace®: an innovative repair and strengthening system based on fiber reinforced polymer composites that provide additional stability to structural elements. It is used directly on the parts where the load-bearing capacity needs to be improved and reinforced strength is required. MasterBrace is also part of our brand of specialty structural repair adhesives for segmental bridge rehabilitation and construction.

MasterFiber®: various monofilament, fibrillated and macrosynthetic fiber types using polypropylene resins to address shrinkage cracking, flexural strength, finish and durability.

MasterLife® 300D: an integral crystalline capillary waterproofing admixture for concrete. It is designed for use in above- and below-grade applications. A red-pigmented version of MasterLife 300D admixture is also available.

Division 05: Metals

Sandwich Plate System (SPS): Intelligent Engineering has developed SPS over the past 20 years. SPS is a composite material comprising two metal plates bonded with polyurethane elastomer core. It is a structural element that is available now as a stronger, faster-to-install, structural replacement for concrete in all types of applications. SPS is accepted and used by engineers and architects worldwide for projects that include floors, cores and walls for high-rise buildings; stadium and arena grandstands and terraces; new construction or reinstatement of highway and pedestrian bridges; ballistic and blast protection for buildings and structures; sound and vibration control of industrial machinery.

Division 07: Thermal and Moisture Protection

Elastospray® and Elastocoat®: a seamless closed-cell, spray-applied polyurethane foam roofing system for new and existing roofs. The lightweight system improves building energy efficiency and indoor comfort; is applicable over existing substrates saving tear-off costs and waste; and is proven leak free with a long-term warranty offering. It has a long service life, repairs easily and it can be re-coated and renewed to extend service life 10 – 30+ years. It also boasts the highest wind uplift resistance.

Enershield® HP and Enershield® I: one-component, fluid-applied vapor permeable or impermeable air/water-resistive barrier. This waterproof, resilient coating may be spray-, roller-, brush- or trowel-applied directly to approved above-grade wall substrates to create a seamless barrier of protection. Air Barrier Association of America (ABAA) evaluated.

Neopor®: A graphite enhanced polystyrene (GPS) based rigid thermal foam insulation that can help mitigate the risk of damage associated with condensation of water vapor inside of wall cavities. With Neopor only air fills the cells. This means Neopors® R value remains stable over time. Neopor is GREENGUARD® GOLD certified for low chemical emissions.

Platinum CI: exterior cladding system featuring Neopor® advanced insulation technology. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include reinforced air/water-resistive barrier, adhesive, Neopor insulation board, reinforced base coat and 100% acrylic polymer finish. IBC, IRC and IECC listed product.

WALLTITE®: closed-cell, spray-applied polyurethane system combines industry-leading air permeance ratings and a superior insulation R-value to make a significant contribution to building energy efficiency. WALLTITE can be applied inside the cavity or on the building exterior as continuous insulation and an air/weather-resistant barrier. NFPA & ABAA approved.

Wabo® FireShield: (horizontal and vertical applications) is a second generation unified fire rated, sound, energy and waterproof sealant system. This fire-retardant impregnated foam does not rely on the silicone face or an intumescent coating to provide its fire rating.

Wabo® SeismicPan: accommodates multi-directional seismic movement, including lateral shear without stress to its components during thermal movement. Meets ADA Guidelines and stays flush during thermal movement and rises upward during a seismic event permitting full movement within the structural joint opening.

Wabo® Seismic SafetyFlex: an elastomeric molded cover plate system recommended for wider joint openings exposed to heavy loading or when design considerations call for the ability to accommodate multi-directional seismic movement.

Wabo® WeatherSeal II: a silicone faced, weather-tight foam seal featuring an extensive color palette for wall and interior harmony. Its sound-attenuating characteristics make it an ideal expansion joint material choice for public spaces.

Division 09: Finishes

Basotect® Melamine Foam: a light-weight, flexible, open-cell foam that is used in room acoustic products. Basotect-based products have a high absorption capability of sound waves. When left untreated, the sound waves will reflect off of hard surfaces increasing the background noise and decreasing speech intelligibility. Basotect provides a high degree of design freedom, as the foam can be easily processed into a variety of different shapes and can be easily colored or combined with different laminates. The foam is also very lightweight, meaning it is very easy to install. With regard to safety, the product contains no fibers, meets NFPA Class A fire ratings without the use of flame retardants, and, when installed in the right proportions, meets the California 1350 indoor air quality standard.

MasterTop®: resinous flooring systems combine the ease of maintenance with the toughness and durability required in challenging commercial, institutional, and chemical environments. In addition, the flooring systems can be installed in a variety of attractive colors, finishes and surface profiles.

Platinum CI Stucco: continuously insulated stucco system featuring Neopor® advanced insulation technology. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include BASF air/water-resistive barrier, Neopor insulation board, lath, BASF stucco base and finish coat. IBC, IRC AND IECC listed product.

Overview

Everyone deserves a great place to live. Somewhere safe, comfortable and healthy that's also affordable to own and occupy. BASF chemistry is helping to make housing more sustainable. Our comprehensive approach to residential construction results in the delivery of high-performance homes and buildings that meet your customers' needs while differentiating your brand in the marketplace. From planning and design to occupancy, we take a holistic approach to the construction and operation of high-performance homes and develop solutions for your design and construction challenges.



BASF Center for Building Excellence

For more information on these products or to connect about other sustainable building practices, collaborate with us at construction.basf.us/cbe.

Elastospray® and Elastocoat® high-performance and elastomeric roof coatings

ELASTOPAVE® technology porous pavement system

Platinum CI exterior cladding system

WALLTITE® closed-cell, spray-applied polyurethane system

Construction Specifications Institute MasterFormat BASF products can be found throughout a variety of divisions across the housing industry.

Division 03: Concrete

ELASTOPAVE® Technology: a poured-in-place pervious pavement for pedestrian and light vehicular traffic loads made from locally sourced bonded architectural stone or recycled glass. It filters storm water/pollutants, mimics natural hydrology, can reduce or eliminate retention ponds and minimizes water treatment demand. Less construction site interruption and reduces heat island effect. Excellent option for storm water management.

Green Sense® Concrete: an environmentally preferred, cost-effective concrete with optimized proportions in which supplementary cementitious materials, non-cementitious fillers, or both, are used with special Master Builders Solutions admixtures. Environmental Product Declaration available.

MasterEmaco®: offers comprehensive solutions for concrete that has been damaged or deteriorated by changing weather conditions, chloride ions, contaminants and extreme environments. The MasterEmaco portfolio of primers, cementitious and resinous repair mortars and fairing coats make up a complete system approach that is used to substitute deteriorated concrete and re-establish the original strength, structural integrity and aesthetics.

MasterFiber®: various monofilament, fibrillated and macrosynthetic types using polypropylene resins to address shrinkage cracking, flexural strength, finish and durability.

MasterProtect®: a system that includes a range of high-performance water repellents, elastomeric and high build anti-carbonation and chemical-resistant coatings that counter challenging weather conditions, environmental contaminants and corrosive elements. The portfolio also includes a special range of corrosion inhibitors such as galvanic anodes and surface applied corrosion inhibitors that are formulated to permeate the concrete and control corrosion directly at the steel reinforcement.

Division 07: Thermal and Moisture Protection

Elastospray® and Elastocoat®: a seamless closed-cell, spray-applied polyurethane foam roofing system for new and existing roofs. The lightweight system improves building energy efficiency and indoor comfort; is applicable over existing substrates saving tear-off costs and waste; and is proven leak free with a long-term warranty offering. It has a long service life, repairs easily and it can be re-coated and renewed to extend service life 10-30+ years. It also boasts the highest wind uplift resistance.

Enershield® HP and Enershield® I: one-component, fluid-applied vapor permeable or impermeable air/water-resistive barrier. This waterproof, resilient coating may be spray-, roller-, brush- or trowel-applied directly to approved above grade wall substrates to create a seamless barrier of protection. Air Barrier Association of America (ABAA) evaluated.

ENERTITE®: a low-density, water-blown, open-cell spray polyurethane foam insulation. ENERTITE easily flows in and around difficult-to-reach areas such as pipes and wiring, creating a seamless seal. In a one-step application, it insulates against extreme outdoor temperatures.

Neopor®: graphite-enhanced and rigid thermal foam insulation that can help mitigate the risk of damage associated with condensation of water vapor inside of wall cavities. Neopor contains only air as a cell gas. This means Neopor's R-value remains stable over time. Neopor is GREENGUARD® certified for low chemical emissions.

Platinum CI: exterior cladding system featuring Neopor® advanced insulation technology. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include reinforced air/water-resistive barrier, adhesive, Neopor insulation board, reinforced base coat and 100% acrylic polymer finish. IBC, IRC and IECC listed product.

SPRAYTITE®: a closed-cell, spray-applied polyurethane foam insulation that creates a seamless, insulation air barrier to improve the energy efficiency, comfort and durability of homes and buildings.

WALLTITE®: closed-cell, spray-applied polyurethane system combines industry-leading air permeance ratings and a superior insulation R-value to make a significant contribution to building energy efficiency. WALLTITE can be applied inside the cavity, or on the building exterior as continuous insulation and an air/weather resistive barrier. NFPA & ABAA approved.

Division 09: Finishes

Platinum CI Stucco: continuously insulated stucco system featuring Neopor® advanced insulation technology. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include BASF air/water-resistive barrier, Neopor insulation board, lath, BASF stucco base and finish coat. IBC, IRC AND IECC listed product.

New Innovation! HP+™ Wall System:

By coupling advanced framing with foam sheathing and spray polyurethane foam in a composite design, the HP+ Wall System increases structural integrity while reducing lumber content and eliminating the need for plywood or OSB sheathing. When properly designed and installed, the HP+ Wall System can offer one of the best values available for residential construction.



WALLTITE® insulating air barrier system

Overview

Schools are a focal point for our communities. Learning happens best in environments that support the health, comfort and well-being of the students and faculty. BASF chemistry helps schools achieve this while also meeting mandates and budgets. Designing and constructing a school includes important considerations such as safety, indoor environmental quality and operational costs. Concrete plays a key role in school construction, and BASF admixtures play a critical role in concrete, making beams, foundations, slabs, walls, columns and pavements stronger and last longer, reducing negative environmental impact along the way. Plus our low-VOC products reduce indoor pollutants, and high-performance spray-applied polyurethane roofing solutions combine energy efficiency with resistance to severe weather.

 **BASF Center for Building Excellence**

For more information on these products or to connect about other sustainable building practices, collaborate with us at construction.basf.us/cbe.



MasterTop® – epoxy and polyurethane floor coatings



MasterSure® Z 60 self-consolidating concrete



Elastospray® – spray-applied polyurethane

Division 03: Concrete
ELASTOPAVE® Technology: a poured-in-place pervious pavement for pedestrian and light vehicular traffic loads made from locally sourced bonded architectural stone or recycled glass. It filters storm water/pollutants, mimics natural hydrology, can reduce or eliminate retention ponds and minimizes water treatment demand. Less construction site interruption and reduces heat island effect. Excellent option for storm water management.

Green Sense® Concrete: an environmentally preferred, cost-effective concrete with optimized proportions in which supplementary cementitious materials, non-cementitious fillers, or both, are used with special Master Builders Solutions admixtures. Environmental Product Declaration available.

Self-Consolidating Concrete with MasterSure® Z 60: Reduces energy consumption and CO₂ emissions during construction while improving safety conditions.

Cool-Colored Concrete with MasterColor® Liquid Admixtures: Lighter admixture colors produce concrete that has higher Solar Reflectance (SR) values and can reduce heat island effect and lighting requirements.

Division 07: Thermal and Moisture Protection
Elastospray® and Elastocoat®: a seamless closed-cell, spray-applied polyurethane foam roofing system for new and existing roofs. The lightweight system improves building energy efficiency and indoor comfort; is applicable over existing substrates saving tear-off costs and waste; and is proven leak free with a long-term warranty offering. It has a long service life, repairs easily, and it can be re-coated and renewed to extend service life 10–30+ years. It also boasts the highest wind uplift resistance.

Enershield® HP and Enershield® I: one-component, fluid-applied vapor permeable or impermeable air/water-resistive barrier. This waterproof, resilient coating may be spray-, roller-, brush- or trowel-applied directly to approved above-grade wall substrates to create a seamless barrier of protection. Air Barrier Association of America (ABAA) evaluated.

Neopor®: A graphite enhanced polystyrene (GPS) based rigid thermal foam insulation that can help mitigate the risk of damage associated with condensation of water vapor inside of wall cavities. With Neopor only air fills the cells. This means Neopors® R value remains stable over time. Neopor is GREENGUARD® GOLD certified for low chemical emissions.

MasterSeal® NP100: high-performance sealant with superior unprimed adhesion to a broad range of substrates, saving material and labor. Paintable, one-component, non-sag, hybrid sealant with excellent movement capability and weathering performance. Ideal for both new construction and restoration.

Platinum CI: exterior cladding system featuring Neopor® advanced insulation technology. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include reinforced air/water-resistive barrier, adhesive, Neopor insulation board, reinforced base coat and 100% acrylic polymer finish. IBC, IRC and IECC listed product.

WALLTITE®: closed-cell spray-applied polyurethane system combines industry-leading air permeance ratings and a superior insulation R-value to make a significant contribution to building energy efficiency. WALLTITE can be applied inside the cavity or on the building exterior as continuous insulation and an air/weather-resistant barrier. NFPA and ABAA approved.

Wabo® SeismicPan: accommodates multi-directional seismic movement, including lateral shear without stress to its components during thermal movement. Meets ADA Guidelines and stays flush during thermal movement and rises upward during a seismic event permitting full movement within the structural joint opening.

Wabo® WeatherSeal II Expansion Joint Seal: a silicone-faced weather-tight foam seal featuring an extensive color palette for wall and interior harmony. Its sound-attenuating characteristics make it an ideal expansion joint material choice for public spaces

Wabo® Seismic SafetyFlex: an elastomeric molded cover plate system recommended for wider joint openings exposed to heavy loading or when design considerations call for the ability to accommodate multi-directional seismic movement.

Wabo® FireShield (horizontal and vertical applications): is a second generation unified fire rated, sound, energy and waterproof sealant system. This fire-retardant impregnated foam does not rely on the silicone face or an intumescent coating to provide its fire rating.

Division 09: Finishes
Basotect® Melamine Foam: a light-weight, flexible, open-cell foam that is used in room acoustic products. Basotect-based products have a high absorption capability of sound waves. When left untreated, the sound waves will reflect off of hard surfaces increasing the background noise and decreasing speech intelligibility. Basotect provides a high degree of design freedom as the foam can be easily processed into a variety of different shapes and can be easily colored or combined with different laminates. The foam is also very lightweight, meaning it is very easy to install. With regard to safety, the product contains no fibers, meets NFPA Class A fire ratings without the use of flame retardants, and, when installed in the right proportions, meets the California 1350 indoor air quality standard.

Flexible White Roof Coatings: BASF's Acronal® acrylic dispersions and Quick-Trigger® technology are specifically designed for use in sustainable reflective roof solutions that help contractors protect against “wash-off” from early rain, decrease labor time and broaden the application season. Ask about BASF's Brilliance™ Roof Coating Program, a holistic approach to acrylics used in roof coatings.

MasterTop®: resinous flooring systems combine the ease of maintenance with the toughness and durability required in challenging commercial, institutional, and chemical environments. In addition, the flooring systems can be installed in a variety of attractive colors, finishes and surface profiles.

MasterTop® SRS: methyl-methacrylate (MMA) self-leveling flooring system for use in areas that require a quick curing, decorative floor. Save on labor with one-hour curing time; requires no stripping or waxing which reduces maintenance costs.

Platinum CI Stucco: continuously insulated stucco system featuring Neopor® advanced insulation technology. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include BASF air/water-resistive barrier, Neopor insulation board, lath, BASF stucco base and finish coat. IBC, IRC AND IECC listed product.

Innovative insight.

Innovative solutions.

At BASF, we're helping construction experts like you create sustainable, comfortable and more resilient environments. We've leveraged our 150 years of innovative chemistry expertise and building science proficiency to develop a revolutionary, holistic approach to commercial construction we call BEYOND.High Performance®. We bring unparalleled insight and innovation directly to you, enabling the affordable construction of sustainable, high-performance buildings and infrastructure.

Contact the BASF Center for Building Excellence to discover how BASF's BEYOND.High Performance® approach can simplify and streamline the sustainable construction process for you, and provide you with the opportunities you need to be successful today ... and beyond.

Visit us at BASF.us/construction/cbe to learn more.

Visit us online

 **BASF**
We create chemistry