To ensure lasting, high quality concrete or masonry repair, first look beyond the superficial damage or deterioration to identify the underlying cause and correct it. Then develop a clear repair strategy utilizing the right high performance products for long-term integrity.

Concrete Repair

Applications

Structural Repair
- Commercial, Institutional Buildings
- Industrial Facilities
- Stadiums and Parking Structures
- Roads, Bridges and Tunnels
- Wastewater and Water Treatment Facilities

Technologies
- Cementitious repair products which can be wet or dry spray applied, formed and poured or hand troweled that contain Integral Corrosion Inhibitors
- Embedded galvanic anodes for corrosion control/mitigation
- Liquid, surface applied migrating corrosion inhibitors
- Latex and epoxy-modified anti-corrosion coatings for rebar
- Methacrylate and epoxy binder resins for overlays, mortars and crack sealing
- Acrylic modified (one and two component) decorative coatings, in a variety of design patterns, for horizontal applications

Rebar Corrosion Protection & Surface Preparation

- **Zincrich Rebar Primer**
  A single-component epoxy resin and metallic zinc rebar primer that actively resists corrosion by reducing anodic generation adjacent to the reinforcing steel.

- **EMACO® P24**
  A water-based epoxy/cementitious bonding agent and rebar coating recommended for bonding concrete and mortar up to 24 hours after application, and for protection against corrosion.

- **Corr-Stops® CI**
  Embedded galvanic anodes which, when added to reinforcing steel in structural repairs, will corrode sacrificially to mitigate corrosion in surrounding reinforcing steel.

- **Masterseal® CP**
  A surface-applied clear liquid that penetrates concrete and provides an organofunctional molecule to inhibit the electrochemical corrosion process between the rebar and the chloride ions, oxygen and moisture in the concrete.

- **Corrosion Inhibitor**
  A water-based organic compound designed to penetrate concrete surfaces and diffuse in vapor or liquid phase to form a protective layer on reinforcing steel, which will inhibit corrosion, even in high concentrations of chlorides.
For project quotes or more information about any of these products, email sales@bestmaterials.com

**Surface Repair**

- **EMACO® 100 and FS**
  A family of two-component polymer-modified repair mortars for horizontal, vertical and overhead applications.

- **Gel Patch**
  A one-component, polymer-modified, silica fume enhanced vertical and overhead repair mortar with microsphere technology for improved workability. Can be placed on vertical or overhead surfaces in lifts up to 2 inches deep without forming. Cementitious mortar incorporating microscopic glass bead technology for superior finishing results and excellent workability. Structural strength exceeds 6000 psi.

- **All-Crete 5 and All-Crete 20**
  Very rapid-setting cementitious concrete repair compounds for above and below grade, interior and exterior, horizontal and vertical applications. It can be covered by asphalt or concrete in 5 or 20 minutes and can be used in temperatures down to 40°F (4°C).

- **SD2 Repair Mortar**
  A two-component polymer-modified, cement-based mortar for horizontal repairs over 1/8” (3 mm) thick. It is shrinkage compensated, provides high bond strength, and is freeze-thaw resistant. It is designed for resurfacing large areas.

- **EMACO® R300 CI**
  A one-component polymer-modified, shrinkage-compensated profiling mortar with integral corrosion inhibitor for leveling and resurfacing distressed concrete, interior or exterior. It provides high early strength gain, and resistance to moisture and chloride intrusion.

- **EMACO® R310 CI**
  A one-component polymer-modified, shrinkage-compensated, flowable repair mortar with integral corrosion inhibitor for a variety of applications. Ideally suited for patching and/or resurfacing distressed horizontal concrete surfaces.

- **HB2 Repair Mortar**
  A two-component polymer-modified high-build, lightweight repair mortar. It is designed for repairing vertical and overhead concrete surfaces in deep lifts—up to 3” on vertical and 1-1/2” on overhead surfaces. It can be applied by hand, trowel, or low-velocity wet spraying.

- **HBA Repair Mortar**
  A two-component polymer-modified rapid-setting mortar. It is used to repair vertical and overhead concrete surfaces in deep lifts—up to 3” on vertical and 1-1/2” on overhead surfaces.

- **EMACO® R 400 Architectural**
  A low-slump, fast setting, Portland-cement-based, multi-purpose smooth repair mortar for detailed fine architectural work. It does not require the use of forms or multi-layered casting techniques.

- **SP15 Spray Mortar**
  A one-component shrinkage-compensated microsilica-enhanced wet spray mortar. It is typically used below grade. SP15 Spray Mortar has excellent chemical resistance, including resistance to hydrogen-sulfide.

**Traffic Repair**

- **10-60 and 10-61 Rapid Mortars**
  Special, very rapid-setting one-component repair mortars for bridges, roadways, and pavement repairs when surface downtime should be minimized. Approved for numerous DOT projects, C-928 compliant. Available in concentrate as 10-60C and 10-61C Rapid Cements.

- **EMACO® T415**
  A one-component rapid-strength repair mortar with extended working time, ideally suited for hot weather applications. It allows applications of epoxy coating within four hours, and has a wide temperature application range.

- **EMACO® T430**
  A one-component rapid-strength repair mortar with extended working time, ideally suited for hot weather applications. It allows applications of epoxy coating within six hours.

- **SET® 45**
  A one-component concrete and anchoring mortar available in two formulations: SET® 45 Regular for use in ambient temperatures below 85°F (29°C); and SET® 45 Hot Weather for use in ambient temperatures ranging from 85°F to 100°F (29°C - 38°C). Both formulations provide rapid high early strength and superior bonding with virtually no drying shrinkage. They are resistant to freeze-thaw cycles and de-icing chemicals.
Structural Repair

- **LA and LA40 Repair Mortars**
  One-component flowable, shrinkage-compensated form and pour full-depth repair mortars. Pumpable for improved productivity. Pre-extended (LA40) for larger volume placements.

- **SP10 and SP15**
  A diversified line of dry- and wet-applied shotcrete utilizing varying combinations of fibers, microsilica or polymers, and shrinkage-compensated to provide the best choice for particular repair applications with superior performance. SP10 and SP15 are NSF approved.

- **EMACO® S66 CI**
  One-component flowable, shrinkage-compensated structural repair concrete with integral corrosion inhibitor recommended for horizontal or formed vertical and overhead concrete repairs.

- **EMACO® S77 CI**
  Very flowable shrinkage-compensated structural repair mortar with integral corrosion inhibitor recommended for horizontal and formed vertical and overhead concrete repairs. It is excellent for form and pump/pour applications where preplaced aggregates are needed.

- **EMACO® S88 CI**
  Sprayable, shrinkage-compensated, fiber-reinforced structural repair mortar with integral corrosion inhibitor recommended for vertical and overhead repair of concrete and masonry, and repairs in federally inspected meat and poultry plants. It provides high early and ultimate compressive, flexural, and bond strengths, and is sulfate resistant and freeze-thaw durable.

- **SHOTPATCH® 21**
  A silica fume enhanced structural shotcrete with integral corrosion inhibitor for wet- or dry-process applications. It offers high bond strengths, low permeability and excellent resistance to damage from freeze-thaw cycles and salt scaling.

- **SHOTPATCH® 21F**
  A silica fume enhanced, fiber-reinforced structural shotcrete within integral corrosion inhibitor for wet- or dry-process applications. It offers high bond strengths, low permeability, and excellent resistance to damage from freeze-thaw cycles and salt scaling.

- **MASTERPATCH® 95**
  A metallic-aggregate epoxy repair mortar ideally suited for heavy-duty applications. It provides an excellent bond to base concrete, and a durable repair with very little downtime.
Crack Repair & Bonding

- **NC Gel Adhesive**
  A noncorrosive, nonabrasive, 100% solids, moisture tolerant, high strength structural epoxy gel.

- **NC LV Adhesive**
  A noncorrosive, 100% solids, moisture tolerant, low viscosity, two-component epoxy adhesive for concrete.

- **CONCRESPIVE® STANDARD LVI**
  A 100% solids low-viscosity epoxy adhesive for use as a high strength binder for grouts and mortars, and repairs to concrete slabs and walls. It can be injected into cracks as small as 0.002 in. (0.05 mm) and less than 1/4 in. (6 mm). It provides rapid strength gain, and bonds to damp or dry concrete.

- **CONCRESPIVE® 1350**
  A low-viscosity liquid epoxy adhesive for pressure-injection grouting with a very fast cure rate and no solvents. It is recommended for repairing cracks in concrete slabs on grade and crack repair in masonry structures.

- **CONCRESPIVE® 1360**
  A solvent-free, ultra low-viscosity liquid epoxy adhesive for pressure-injection grouting. It provides excellent penetration into fine fissures, and maintains its very low viscosity throughout application temperature ranges.

- **CONCRESPIVE® 1370**
  A solvent-free, low-viscosity liquid epoxy adhesive for pressure injection grouting, particularly suited for filling large voids in concrete, rock and wood structures. It offers a slow cure for extended pumping time, and can be injected in masses without excessive heat build up. It is resistant to high levels of nuclear radiation.

- **CONCRESPIVE® 1420**
  A general-purpose epoxy adhesive with 100% solids and a non-sag consistency particularly suited for the anchoring of fasteners, rebar and dowels into concrete.

- **CONCRESPIVE® 1210 IUG**
  An ultra low-viscosity urethane injection resin for controlling water flow. It provides excellent penetration into fine fissures, and the cure resin withstands thermal expansion.

- **CONCRESPIVE® 1230 IUG**
  A low-viscosity one-component polyurethane injection resin for sealing water leaks by forming a resilient and flexible gasket or plug.

- **CONCRESPIVE® 1250 IUG**
  A one-component polyurethane injection resin designed for sealing gushing water leaks of high pressure and volume from large voids or openings in and around concrete or gunite structures. It reacts with water to form a rigid closed-cell foam.

- **CONCRESPIVE® LIQUID LPL**
  A two-component, 100% solids liquid epoxy bonding agent designed for applications in warm environments where a long working time is needed.
BASF Construction Chemicals – Building Systems is an industry leader in the manufacture of construction chemicals and building products for the construction industry. Its widely recognized brands – Sonneborn®, Thoro®, MBT Protection and Repair, Hydrozo®, SELBY®, UCRETE®, and SRS DEGADUR® provide an expansive product offering that includes joint sealants, grouts, waterproofing membranes, concrete repair products, clear sealers, performance floor- ing, and wall coatings.

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