

Materials for Protection and Restoration in the CHEMICAL & PETROCHEMICAL INDUSTRY

REFRACTORIES & POLYMER CONCRETES & MORTARS

Chemical-Resistant Castable

No. 35 is a hydraulically-setting, calcium aluminate cement applied by gunite. It is recommended for protection of concrete and steel surfaces from high temperatures, thermal shock, abrasion and chemical exposure. It withstands temperatures to 2100°F, and resists mild acids and alkalis over a pH range of 4.5 to 12.0 in a dry gas environment.

Chemical-Resistant Castable

No. 35SG is a hydraulically-setting, calcium aluminate castable concrete. It is recommended for protection of concrete and steel surfaces from high temperatures, thermal shock, abrasion and moderate chemical exposure. This product can eliminate the need for costly firebrick or tile linings and is equally effective for new construction or rehabilitation projects. It resists mild acids/alkalies over a pH range of 4.5 to 12.0 and withstands temperatures to 2100°F.

Acidproof Concrete

No. 54 boasts a half-century of successful, varied service. It is the original acid-resistant material for gunite construction. For those applications that require a lower K factor, lightweight materials, or higher temperature resistance, No. 54LW is recommended. No. 54 and 54LW are potassium silicate refractories for use as monolithic linings in chimneys, ducts, breechings, scrubbers, precipitators, tanks, process vessels, and sumps. These refractories are especially recommended for all concentrations of sulfuric, hydrochloric, nitric, and phosphoric acids over a pH range of 0.0 to 7.0. For cast applications, refer to No. 54SG.

Acidproof Concrete - Structural Grade

No. 54SG is the polymer concrete version of Sauereisen's original No. 54. It is a similar potassium silicate castable refractory for chemical resistant construction. No. 54SG exhibits strong physical properties for foundation grade applications. Sauereisen 54SG has been specifically formulated to exhibit the handling properties of Portland concrete by utilizing typical mixing, forming, and casting methods.

Polymer Concrete

Sauereisen offers a multitude of organic and inorganic polymer concrete formulations. Sauereisen's polymer concrete's offer superior chemical resistance, strength's exceeding 15,000 psi and rapid return to service (less than 24 hours). Compared to a cement-based materials Sauereisen's materials are much less permeability and provide long-term service life. Sauereisen incorporates a diverse inventory of polymer resins including but not limited to Novolak Epoxies, Vinyl Esters, and Potassium Silicates. These products utilize appropriate reinforcement and are suitable for use as a monolithic topping in rehabilitating chemically deteriorated concrete or as a means of protecting new infrastructure.

Vinyl Ester Polymer Concrete

No. 410 is a castable vinyl ester material. It is used for the chemical-resistant construction of many structures in the chemical industry. Mixing and forming methods are similar to those used for Portland cement installations. Vinyl ester polymer concrete offers superior chemical resistance with a maximum service temperature of 220°F.

Corrosion Resistant Mortar

No. 65 is a potassium silicate mortar for bonding acidproof brick or tile used in the construction of industrial chimneys, stacks, tanks, kilns and floors. It is a two-component material, consisting of a Powder and a Liquid which are mixed together on the job. The mortar is applied by trowel in the same manner as ordinary bricklaying. No. 65 is particularly recommended for installations involving sulfuric acid and strong oxidizing solutions. The mortar is highly resistant to the sulfation that may develop in other types of silicate-based mortars when brickwork is subjected to alternate wetting and drying, fluctuation of dewpoint, or acid mist conditions. Sauereisen No. 65 resists most solvents, oils, and acids over a pH range of 0.0 to 7.0.

SEE REVERSE SIDE

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No. 35SG

No. 35

No. 54SG

No. 165/265/465

No. 410

No. 65

No. 54/54LW

Furan Resin Mortar / Grout

Two-component, 100% carbon-filled bonding material for chemical resistant masonry units and quarry tile. No. 21C and chemical-resistant masonry units used with a suitable membrane form a complete system to protect concrete and steel substrates from attack by corrosive chemicals, high temperatures and physical abuse.

COATINGS & LININGS

FibreCrete - Epoxy Novolak

FibreCrete No. 218 is a novolac epoxy lining system used to protect concrete and steel from chemical attack. Its fiber-reinforcement enables outstanding flexural and tensile strength. It has excellent resistance to sulfuric acid and hydrocarbon exposure. At a thickness of 40 mils, it offers abrasion resistance making it an ideal lining for several environments. No. 218 is a 100% solids material applied by airless spray equipment.

ConoGlaze - Epoxy Novolak

ConoGlaze No. 228 is a novolac epoxy coating used to provide chemical resistance for concrete or steel. No. 228 is a 100% solids coating applied by spray or roller. It may be used as a glossy topcoat for FibreCrete systems. No. 228 provides an easy to clean surface. Standard colors are gray and tile red.

Vinyl Ester FibreLine

FibreLine No. 440 is a fiber-reinforced lining used for the chemical resistant construction or rehabilitation of structures common to the power, chemical, and petrochemical industries. No. 440 offers superior chemical resistance and a fast set. FibreLine exhibits tolerance to oxidizing environments and offers high temperature resistance for flue gas environments.

VEGlaze

VEGlaze No. 472 is a vinyl ester coating used for the chemical-resistant construction of sumps, ducts, containment areas, trenches, walls and other support infrastructure. VEGlaze may be used either as a thin barrier of corrosion resistance or as a topcoat for other Sauereisen vinyl ester linings and polymer concretes. Like No. 440, it offers excellent chemical resistance for oxidizing environments.

MEMBRANES & PRIMERS

High Temperature Membrane

No. 89 is an asphalt-based material designed to function as an elastomeric membrane. Supplied as a single component for spray applications, it is typically used behind either a monolithic refractory or a brick & mortar lining. The membrane serves as a final layer of defense for concrete, steel, or brick substrates subject to corrosive conditions. No. 89 maintains flexibility and chemical resistance to a wide variety of acids, alkalis and salts associated with flue gas environments. The membrane also tolerates moderate substrate movement from temperature changes or other causes. Suitable for temperature ranges of -60°F to 300°F.

Fib-R-Thane

Fib-R-Thane is an elastomeric membrane composed of asphalt-modified urethane. It is used as a chemical-resistant membrane or gasket seal for the protection of concrete, block and steel. It is available in trowelable and sprayable grades. Fib-R-Thane resists acids, alkalis and salts associated with either flue gas and immersion environments. Fib-R-Thane is fiber-reinforced and maintains excellent elasticity and adhesion over a temperature range of -30°F to 250°F.

ConoWeld

This 100% solids epoxy primer is used in conjunction with the Sauereisen line of epoxy coatings, linings and flooring materials. Applicators use spray equipment, brushes or rollers to apply ConoWeld. It emits no noxious or toxic odors and its easy application properties help to reduce downtime.

VEPrime

VEPrime No. 550 is a vinyl ester primer to be used in conjunction with Sauereisen vinyl ester coating and lining systems. VEPrime is a two-component material packaged as a pre-measured unit. VEPrime may be applied by roller or spray.

Hi-Temp Primer

No. 560 is a single-component, moist-cured urethane primer to be used in conjunction with several Sauereisen coating and lining systems. The function of No. 560 is to promote a tenacious bond of Sauereisen epoxy, vinyl ester and urethane topcoats to concrete substrates. No. 560 is especially useful where substrate or atmospheric moisture may interfere with the cure of epoxy or vinyl ester primers. Maximum service temperature is 400°F.

No. 89

No. 501

No. 228

No. 218

No. 440

No. 472

No. 88T/S

No. 550

No. 560

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