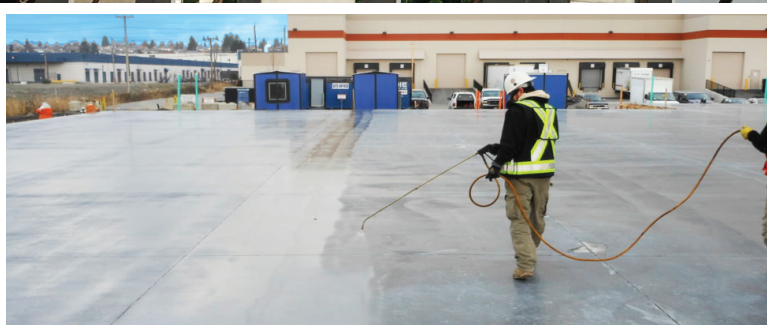


nox-cretetm

chemical solutions to concrete problems

TILT-UP



FULL TILT ON TILT-UP

We have taken tilt-up to a new level by introducing an entire line of high performance tilt-up products designed to improve building aesthetics, reduce construction costs (by reducing labor and material costs) and reduce construction time.

Our 100% compatible Tilt-Up Partner Products eliminate incompatibility concerns resulting from the use of products from multiple manufacturers ensuring peace of mind for the entire project team.

From cure and bondbreakers to battery powered sprayer systems and PVC rustication strips, Nox-Crete has you covered on your next tilt-up project.

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BONDBREAKERS

SILCOSEAL SELECT

- Water Based

New generation, chemically active cure and bondbreaker for tilt-up, lift slab and precast construction

SILCOSEAL SELECT is a new generation tilt-up cure and bondbreaker with improved emulsion stability that draws from over 60 years of experience manufacturing products for tilt-up construction resulting in SILCOSEAL SELECT becoming the most successful and sought after bondbreaker in the world. Like all other versions of SILCOSEAL, and in contrast to most conventional cure and bondbreakers, SILCOSEAL SELECT does not contain any wax or hydrocarbon resins and, as a result, does not depend on a physical barrier deposited on top of the casting slab to prevent bonding. Instead, SILCOSEAL SELECT consists of a special formulation of chemically reactive organic compounds which chemically react with calcium hydroxide, a byproduct of the cement hydration reaction, present in the concrete surface pores. The reaction products are amorphous gels which, in conjunction with other combined special organic compounds in SILCOSEAL SELECT, effectively seal concrete casting slab surface pores. Moisture entry or exit through the casting slab is further restricted by the addition of a special additive in SILCOSEAL SELECT designed to minimize wall panel surface defects resulting from the “Osmotic Effect”. When applied as a cure, SILCOSEAL SELECT is very effective at restricting water loss during curing, meeting the moisture retention requirements of ASTM C309 when applied to a steel troweled surface in accordance with CEN/TS 14754.



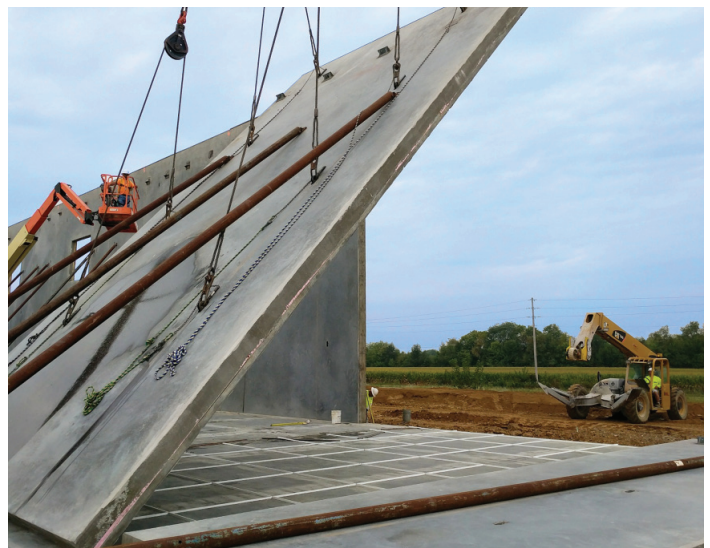
SILCOSEAL SELECT

SILCOSEAL 2000F

- Water Based

Second generation, chemically active cure and bondbreaker for tilt-up, lift slab and precast construction

In contrast to most conventional cure and bondbreakers, SILCOSEAL 2000F does not contain any wax or hydrocarbon resins and, as a result, does not depend on a physical barrier deposited on top of the casting slab to prevent bonding. Instead, SILCOSEAL 2000F consists of a special formulation of chemically reactive organic compounds in a predominately water based solvent system which chemically react with calcium hydroxide, a byproduct of the cement hydration reaction, present in concrete surface pores. The reaction products are amorphous gels which, in conjunction with other combined special organic compounds in SILCOSEAL 2000F, effectively seal concrete casting slab surface pores. Moisture entry or exit through the casting slab is further restricted by the addition of a special additive in SILCOSEAL 2000F designed to minimize wall panel surface defects resulting from the “Osmotic Effect”. When applied as a cure, SILCOSEAL 2000F is very effective at restricting water loss during curing, meeting the moisture retention requirements of ASTM C309 when applied to a steel troweled surface in accordance with CEN/TS 14754.



SILCOSEAL 2000F

BONDBREAKERS

SILCOSEAL ADVANTAGE

• Water Based

Chemically active cure and bondbreaker for tilt-up, lift slab and precast construction

Economical water based cure and bondbreaker that is value engineered to a high level of performance at a very reasonable price. SILCOSEAL ADVANTAGE chemically reacts, like all SILCOSEAL bondbreakers, with byproducts of the cement hydration process to create amorphous gels that prevent sticking and allow panels to lift easily. Wall panel surfaces appear uniformly white without the traditional yellow bondbreaker discoloration. While SILCOSEAL ADVANTAGE does not have the improved emulsion stability and protection from the “Osmotic Effect” like other versions of SILCOSEAL, its performance is still much better than most conventional tilt-up bondbreakers. When applied as a cure, SILCOSEAL ADVANTAGE is very effective at restricting water loss during curing, meeting the moisture retention requirements of ASTM C309 when applied to a steel troweled surface in accordance with CEN/TS 14754.

SILCOSEAL CLASSIC

• Solvent Based

Chemically active cure and bondbreaker for tilt-up, lift slab and precast construction

Economical solvent based cure and bondbreaker that is value engineered to a high level of performance at a very reasonable price. In contrast to most conventional solvent based cure and bondbreakers, Silcoseal Classic does not contain any wax or hydrocarbon resins, and as a result, does not depend on a physical barrier deposited on top of casting slab to prevent bonding. Instead, SILCOSEAL ADVANTAGE chemically reacts, like

all SILCOSEAL bondbreakers, with byproducts of the cement hydration process to create amorphous gels that prevent sticking and allow panels to lift easily. Wall panel surfaces appear uniformly white without the traditional yellow bondbreaker discoloration. Site cast wall panels separate easily and completely without the need for pry bars or wedges commonly used with membrane-forming bondbreakers.

SILCOSEAL LVOC

• Solvent Based

New Generation, Low VOC, chemically active cure and bondbreaker for tilt-up and lift slab construction

SILCOSEAL SELECT is a new generation tilt-up cure and bondbreaker for use in low VOC markets where other versions of SILCOSEAL cannot be used. In contrast to most conventional cure and bondbreakers, SILCOSEAL LVOC does not contain any wax or hydrocarbon resins and, as a result, does not depend on a physical barrier deposited on top of the casting slab to prevent bonding. Instead, SILCOSEAL LVOC is formulated with organic compounds that react chemically with byproducts from the cement hydration process to create amorphous gels that prevent sticking and allow panels to lift easily. Site cast wall panels separate easily and completely without the need for pry bars or wedges commonly used with conventional bondbreakers. SILCOSEAL LVOC can be stored in freezing conditions and can be sprayed at temperatures down to 32 deg F (0 deg C). When applied as a cure, SILCOSEAL LVOC is very effective at restricting water loss during curing, meeting the moisture retention requirements of ASTM C309 when applied to a steel troweled surface in accordance with CEN/TS 14754.



SILCOSEAL CLASSIC



SILCOSEAL LVOC

CURES & SEALS

CURE & SEAL 1200E

- Water Based

High Performance, water based, methyl methacrylate acrylic concrete curing and sealing compound

Applied to freshly placed and finished concrete surfaces, CURE & SEAL 1200E creates a vapor seal that minimizes moisture loss through evaporation and allows concrete to develop maximum strength, density and surface hardness. Successive seal coats can be applied to create a high gloss, abrasion and chemical resistant surface coating. Meets the moisture retention requirements of ASTM C309.

RES CURE DS

- Water Based

Dissipating, water based, styrene resin type curing compound

Applied to freshly placed and finished concrete surfaces, RES-CURE DS quickly forms a moisture vapor-resistant membrane, preventing rapid evaporation of concrete mixing water necessary for proper concrete cure and strength development. RES-CURE DS begins to dissipate immediately following application with exposure to sunlight and alkalinity from the concrete, and typically becomes fully dissipated in 90 days, or less. Meets the moisture requirements of ASTM C309.

SEALERS

NOX-CARB

- Solvent Based

Acrylic and Silane Sealer and Stain for Exterior Vertical Concrete

Penetrating, breathable, water repellent sealer/stain offers maximum protection for exterior vertical concrete surfaces. Formulated with a low molecular weight, 100% methyl methacrylate acrylic resin and a patented silane for enduring color and outstanding water repellency. Will not fade, flake or peel. Available in two textured versions (50 and 100 mesh) and in 10 standard colors and unlimited custom colors. Also available with a 10-year warranty.



NOX-CARB

RUSTICATION STRIPS

CLEAN LINE REVEAL

Standard and Custom Extruded High-Density PVC Reveal for Tilt-Up

Made from high density PVC, CLEAN LINE REVEAL is used to create design details and chamfered edges on Tilt-Up wall panels. Available in 10 different profiles including a double chamfer, CLEAN LINE REVEAL can be easily cut to length and glued in place using spray adhesive or double-sided tape. The finished wall panel is left with an incredibly smooth and uniform finish without the retardation or discoloration that can be caused by wood sugar migration from traditional wood strips.



CLEAN LINE REVEAL

CONCENTRATED CLEANER

BIO-CLEAN PLUS

• Solvent Based

Concentrated, biodegradable, citrus based concrete floor stripper

BIO-CLEAN PLUS is a powerful, water-dilutable, citrus based, concrete floor stripper that deeply penetrates concrete floor surfaces to safely and effectively remove curing compounds residue, tilt-up bondbreaker residue, rustication adhesives, black tire marks, oil and grease, paints and most other construction contamination. BIO-CLEAN PLUS can be used in auto-scrub machines and is 100% biodegradable.



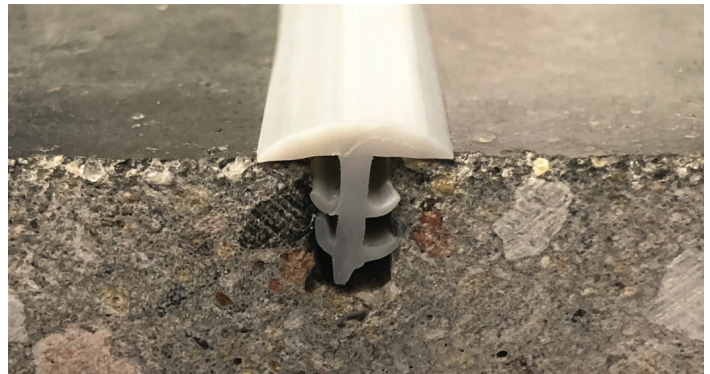
BIO-CLEAN PLUS

JOINT FILLER

TP-JOINT

Temporary Joint Filler for Concrete Slabs

Pre-molded, PVC, flexible temporary joint filler designed to seal casting slab saw cut crack control joints prior to placement of wall panel concrete to prevent concrete seepage into joints and resulting concrete wall panel fins. Eliminates costly labor to grind concrete fins on erected wall panel surfaces and significantly reduces patching costs. TP JOINT is easy to install and can be patched together and reused multiple times.



TP-JOINT

JOINT-SHIELD

Temporary Joint Filler for Concrete Slabs

Coextruded, pre-molded, PVC temporary joint filler that effectively covers and seals saw cut joints in casting/floor slabs. JOINT-SHIELD has flexible wings that eliminates concrete seepage into saw cut joints which can result in wall panel surface defects. Eliminates concrete wall panel fins and costly grinding and patching. JOINT-SHIELD quickly installs, is available in 8 ft. lengths and is reusable.



JOINT-SHIELD

EVAPORATION REDUCER

MONOFILM

• Water Based

Water based, surface moisture evaporation reducer for concrete

MONOFILM contains a high molecular weight alcohol that when applied to fresh concrete slabs forms a monomolecular film on the surface that effectively reduces surface bleed water evaporation up to 80% to reduce wind crusting and to minimize the formation of plastic shrinkage cracks.



MONOFILM

APPLICATION EQUIPMENT

IDEAL FORM & CONCRETE SPRAYER

Economical Hand Pump Sprayer

The IDEAL FORM & CONCRETE SPRAYER is an economical choice for applying concrete tilt-up bondbreakers, curing compounds, floor sealers and other construction chemicals. Equipped with a polypropylene tank and trigger valve, brass wand and chemical-resistant hose, seals and gaskets. Includes discharge filter in the tank and an eight-foot coiled hose.



CONCRETE ADHESIVES / PATCHING MATERIALS

ACRYL-BINDER

High-Strength, Water Based, Acrylic Copolymer, Integral Admixture and Bonding Agent for Concrete Patching

ACRYL-BINDER contains a high strength, non-reemulsifiable acrylic resin polymer that provides a plasticizing effect when added to patching mixes which lowers the water/cement ratio and improves cement hydration resulting in substantially improved flexural, adhesive and tensile strength properties. As a bonding agent, ACRYL-BINDER improves the bonding properties of freshly placed patching and overlay materials, allowing for improved adhesion in both thin and high build applications.

PANEL PATCH

Fast Drying, Smooth Textured, Non-Grit Containing, Portland Cement Based, Polymer Modified, Concrete Resurfacing and Finishing Compound

Polymer modified concrete resurfacing and finishing compound portland cement based formulation has a smooth, creamy consistency that is grit-free and can be featheredged (like drywall compound) for smooth transitions. Dries fast - in as little as 15 minutes. Ideal for repair of minor surface defects such as chips, gouges, grinding marks etc. on all tilt-wall panels.



PANEL PATCH

HISTORY



CARL LINN IN THE LABORATORY

THE CONCRETE CHALLENGE

In 1956, while working for a lubricant company, chemist Carl Linn observed contractors using the company's oil and grease compounds to prevent concrete from bonding to forms. Not only were the compounds difficult to work with, but the concrete was discolored and unpaintable. Forms failed after just a few pours. Concrete workers struggled with these issues for years, but Linn had an idea.

OUR CHEMICAL SOLUTIONS

After developing the world's first chemically active concrete form release agent, the company then set its sights on tilt-up and went on to develop the world's first chemically active water-based bondbreaker for tilt-up, lift slab and precast construction. Although initially met with some reluctance to switch over from the traditional petroleum-based, barrier type bondbreakers, it wasn't long before the new water-based, chemically active SILCOSEAL bondbreaker was the top selling bondbreaker in the world.

With SILCOSEAL 2000F and SILCOSEAL SELECT, concrete tilt wall panels come up bright white colored, with minimal surface defects and free of all bondbreaker residue. And so, Nox-Crete's passion for solving concrete professionals' challenges was born.



NOX-CRETE BONDBREAKER USED ON CIRCA 1964 TILT-UP PROJECT

STILL INNOVATING WORLDWIDE

Today, Nox-Crete continues to manufacture chemical solutions to concrete problems. With over 100 unique and innovative products spanning 11 different market segments sold through a worldwide network of distributors and dealers, Nox-Crete has emerged as a recognized leader in the industry.

Following Carl Linn's example, we continue to rely on concrete contractors for new product ideas. Our chemists and engineers work closely with contractors to identify field problems and then develop product solutions in our laboratory.

This passion for innovation is found in the quality and performance of all Nox-Crete products.

CONCRETE MARKETS WE SERVE

- Application Equipment
- Curing
- Decorative
- Equipment Maintenance
- Flooring
- Forming
- Grouts and Repair Mortars
- Plywood form OEM
- Precast
- Tilt-Up
- Waterproofing



chemical solutions to concrete problems

