

nox-crete®

chemical solutions to concrete problems

PRECAST



## CASTING A BRIGHTER LIGHT ON CONCRETE

Nox-Crete has been a trusted provider of products for the precast industry for more than 65 years. With the development of the world's first chemically active form release agent in 1956, Nox-Crete continues to develop, manufacture and market innovative products to assist the precast industry.

Whether your requirements call for a high performance architectural form release agent, products to make your panels look more attractive or equipment maintenance products or the manufacture of an entirely new formwork system – Nox-Crete has a cost-effective, labor-saving solution for you.

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**ARCHITECTURAL RELEASE AGENTS**



chemical solutions to concrete problems

**CALL TODAY**

**For a FREE in-plant demonstration on any of our precast products!**

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**402-341-2080**

[www.nox-crete.com](http://www.nox-crete.com)

Learn how our products can bring value to your precast facility!



## GREEN ENGINEERED PRODUCTS

Since the early 1980s, Nox-Crete has been committed to developing products that are Green Engineered®. Nox-Crete products with this label are specially designed to be safer for both people and the environment. The cornerstone of our Green Engineered® concept is our research and development of water-based products.

Green Engineered® products from Nox-Crete are performance-driven and designed to the highest quality standards using safer raw materials. With Green Engineered® products, design and construction professionals can meet the expectations for project design and construction without compromise to product performance or the world we share.



**BRICK RELEASE / ATTACHMENT EMBEDS**

# APPLICATION EQUIPMENT

## PERFECT SPRAYER

### **Precast-Grade/Heavy Duty Hand Pump and Compressed Air-Filled Sprayer**



Perfectly designed for consistent and trouble-free application of concrete form release agents for the precast industry. The sprayer can be hand pumped or charged from an external air source to a maximum pressure of 116 psi (800 kPa). Features a constant flow (CF) valve to regulate spray tip pressures to 40 psi (276 kPa), to achieve a uniform spray pattern. Equipped with a heavy-duty hammer-finished tank, stainless steel wand and heavy-duty trigger valve, in-line 100-mesh filter, air pressure gauge, spare parts container and chemically resistant hose, seals and gaskets.

## FEATURES:

- Heavy-Duty and Built-to-Last
- High-Pressure
- Built-In Pressure Gauge
- Finer Tips for Consistent Coverage Rates
- Constant Flow (CF) Valve for Control of Pressure

## MICROFIBER APPLICATOR

### **Product Applicator**

A heavy duty, commercial-grade microfiber applicator with aluminum frame and telescoping pole. Used to even out spray applications of release agents on precast forms to produce bright white concrete finishes. Microfiber applicator and pads are available in 24 inch (61cm) and 36 inch (91cm) sizes.



# FOAMERS

Nox-Crete foaming sprayers are engineered to deliver a thick, rich foam that clings to vertical surfaces, extending dwell time for maximum cleaning power while reducing product waste and lowering costs.

## PERFECT PUMP FOAMER

### **Hand Pump Foamer**

The Perfect Pump Foamer is specifically designed to produce a thick, rich foam that clings to vertical surfaces for the application of Blast-Off and Kem-Ex-It Plus. Manufactured with a heavy-duty polypropylene tank and equipped with a wide mouth and funnel cap for easy filling, Viton® seals for extended durability and a built-in pressure relief valve. The pro-wand and spray tip on the Perfect Pump Foamer maximizes the performance of Blast-Off concrete buildup and splatter remover.



## WALL-MOUNTED PERFECT POWER FOAMER

### **Commercial-Grade, Wall-Mounted Foaming Spray Pump for Spraying Large Precast Equipment, Machinery and Ready-Mix Trucks**

The wall-mounted Perfect Power Foamer is specifically designed to produce and propel a thick, rich foam long distances to reach large equipment. The foam clings well to vertical surfaces, **maximizing the performance of Blast-Off Concrete Buildup and Splatter Remover.** The Perfect Power Foamer comes equipped with a 50' hose, heavy-duty spray wand and is ideal for use on ready mix concrete trucks and other large equipment.

The Perfect Power Foamer also has the ability to dilute and apply Blast-Off Neutralizer to neutralize residual Blast-Off Foam Concentrate to a neutral pH for safe disposal in sanitary sewers.



## ARCHITECTURAL RELEASE AGENTS

### RELEASE AGENT #10®

- Petroleum Based • Water Based

#### Maximum Performance Architectural Form Release Agent

Produces architectural concrete surfaces free of staining with reduced surface void defects (bugholes). Ideal for form applications requiring an ultra-thin film release agent that is both fast drying and less slippery in horizontal deck applications. Performs extremely well with Type 1L cement containing mix designs. Available in both water-based and a USEPA Inherently Biodegradable version that complies with OECD 301 and multiple other versions to meet all federal, state and local VOC requirements.



RELEASE AGENT #10

### PRECAST RELEASE® #80

- Petroleum Based

#### Maximum Performance Form Release Agent

A highly reactive formulation that combats SCC and other aggressive concrete mix designs. Precast Release #80 combines chemical and barrier components to produce architectural concrete surfaces free of staining with reduced surface void defects (bugholes). Ideal for use on steel forms in steam-curing applications. Performs well with Type 1L concrete mix designs and with other sticky mix designs containing high amounts of cement, fly ash, silica fume or high-range water reducers. Available in a USEPA inherently biodegradable version that complies with OECD 301.



PRECAST RELEASE #80

### BIO-NOX

- Water Based

#### Maximum Performance, 100% Biodegradable Form Release Agent

Produces architectural concrete surfaces free of staining with reduced surface void defects (bugholes). Unparalleled performance on most non-absorptive form surfaces. Ideal for use on all rubber, plastic or fiberglass forms and form liners and on all form surfaces sensitive to petroleum-based solvent attack. Performs extremely well with Type 1L cement containing mix designs. USEPA Readily Biodegradable – Complies with OECD 301.



BIO-NOX

## PIGMENTED STAIN & SEALER

### NOX-CARB

- Solvent Based

#### Penetrating Acrylic Sealer, Water Repellent and Stain For Exterior Vertical Concrete

NOX-CARB is a pigmented acrylic-silane sealer for exterior vertical concrete. Its penetrating formulation bonds deep within the surface, creating a hydrophobic barrier that resists weathering, salts, dirt, UV light, freezing temperatures, and wind-driven rain. NOX-CARB outperforms paint, providing lasting color in a satin finish with 10 standard colors and an optional texture additive to help mask imperfections.



NOX-CARB

# ECONOMICAL RELEASE AGENTS

## DRY-CAST RELEASE

- **Petroleum Based**

### **Dry-Cast Release Agent for Concrete Pipes, Masonry Units and Pavers**

A petroleum-based, combination chemically active and physical barrier type form release agent design for use with dry-cast concrete. It positively prevents form binding as well as the accumulation of concrete buildup and allows entrapped air to easily migrate along form surface during vibration, producing crisp, uniformly colored and void-free concrete. USEPA Inherently Biodegradable – Complies with OECD 301.



**DRY-CAST RELEASE**

## CLEAN RELEASE

- **Petroleum Based**

### **Economical Form Release Agent**

Combines both chemically active and barrier components resulting in a value engineered product with low odor and good sprayability designed to meet competitive market conditions. Available in multiple versions with varying levels of chemical reactivity to accommodate the most difficult concrete mix designs.

## FORM & EQUIPMENT MAINTENANCE

## FOUR-ACT

- **Petroleum Based**

### **Highly Chemically Reactive Concentrate for Raising Reactivity on Economical Release Agents**

Four-Act is a concentrated, petroleum-based, highly reactive formulation that chemically reacts with fresh concrete to prevent bonding with existing concrete and to soften buildup on both aluminum forms and all types of concrete handling and placing equipment. Four-Act can also be diluted and used as a form release agent.

## PALLET-NOX

- **Water Based**

### **Economical, Concentrated, Dry-Cast Release Agent for Concrete Pipe, Masonry Units and Pavers**

A concentrated, 100% Biodegradable dry-cast form release agent that is chemically active and easily dilutes with water to achieve optimum results for economical usage. Performs well in dip tank applications. USEPA Readily Biodegradable – Complies with OECD 301.



## PRO-RELEASE 3.0

- **Water Based**

### **Economical, General Purpose, Concrete Form Release Agent**

Pro-Release 3.0 offers Nox-Crete performance at an economical price. Combines low odor, chemically active and barrier-type components for improved release performance with most concrete mix designs. For use on steel, aluminum, fiberglass and overlaid plywood forms.



**PRO-RELEASE 3.0**

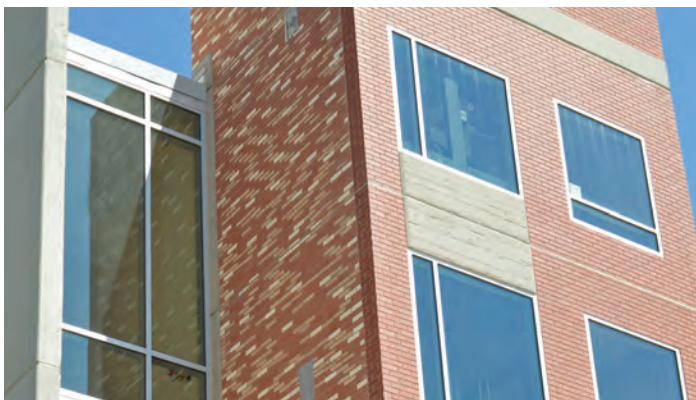
## SPECIALTY RELEASE AGENTS

### BRICK RELEASE

- Water Based

#### **Protective Treatment for Thin Brick**

Brick Release is a superior, cost-effective alternative to traditional thin brick waxing in precast applications. It protects brick faces from concrete slurry staining and is faster, cleaner, and easier to apply and remove than wax. Unlike traditional methods, removal requires no hot wax—eliminating mess while saving time and labor. Fully compliant with all federal, state, and local VOC regulations.



BRICK RELEASE

### FOAM RELEASE

- Water Based

#### **Release Agent for Foam Forms**

Foam Release is a thickened combination chemically active and physical barrier-type release agent for use on foam that prevents concrete sticking to substantially reduce form-stripping time. Used on Expanded Polystyrene (EPS), extruded polystyrene, polyurethane and polyisocyanurate forms, knockouts and void formers. A bright colored, pH-sensitive pink dye is added to ensure uniform coverage. Complies with all federal, state and local VOC requirements.



FOAM RELEASE

## FORM SEALERS

### CLEAR PRE-FORM®

- Low Build

#### **Penetrating, Moisture Cured Polyurethane Sealer for Wood Forms**

Seals and protects all types of wood. Prevents wood sugar migration and resulting concrete surface dusting and retardation. Preserves the natural texture of rough-sawn or embossed wood panels used to produce board-marked concrete.

### PRE-FORM® HB

- High Build

#### **Flexible Polyurethane Coating System**

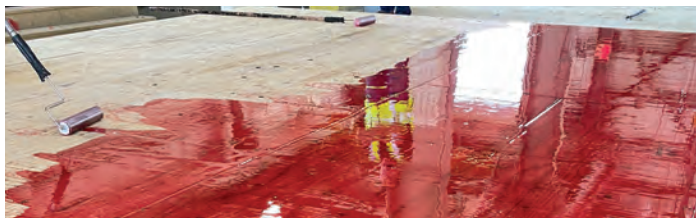
Used to overlay or resurface plywood or steel forms. Creates uniformly smooth surfaces by covering up all surface imperfections, screw holes, gouges, splits and cracks. Prevents wood grain pattern telegraphing of plywood forms onto formed concrete surfaces. Ideal for use on plywood form tables and worn out steel forms.

### PRE-FORM® 100

- High Build

#### **Solvent-Free, Self-Leveling Rigid Epoxy Coating for Sealing Plywood and Oriented Strand Board (OSB) Forms**

Seals and protects plywood and OSB wood panels in architectural casting bed applications. Allows for multiple reuses of sealed wood. Creates a rigid, impact-resistant casting surface that is seamless, smooth and long lasting. Available in clear, red and white for ease of application. Fast cure versions are also available for cold temperature applications.



PRE-FORM® 100

## FORM SEALER APPLICATION ACCESSORIES

### 28" TORNADO POWER MIXER

Ideal for mixing Nox-Crete's Pre-Form HB and Pre-Form 100 sealers. Made with 7" polypropylene blade with 3/8" hex shaft, fits any standard 1/2" slow speed drill.



### 24" SPIKED ROLLER

Spiked roller with aluminum frame, used for eliminating bubbles and leveling Nox-Crete's Pre-Form HB and Preform 100.



### 26" SERRATED SQUEEGEE BLADE/FRAME

Precision application squeegee system with a self-leveling 25-30 WFT MILS. The applicator squeegee is used for proper application of Nox-Crete's Pre-Form HB and Pre-Form 100. The rubber blade allows flexibility of application thickness through pressure and angle applied.



## FORM AND EQUIPMENT MAINTENANCE PRODUCTS

### BIO-CLEAN PLUS

- Water Dilutable

**Concentrated, Biodegradable, Citrus-based Stripper, Consumer Products Compliant**

Bio-Clean Plus is a powerful, water dilutable stripper that penetrates form surfaces to safely and effectively remove oil, grease, dirt, adhesives and other residue.

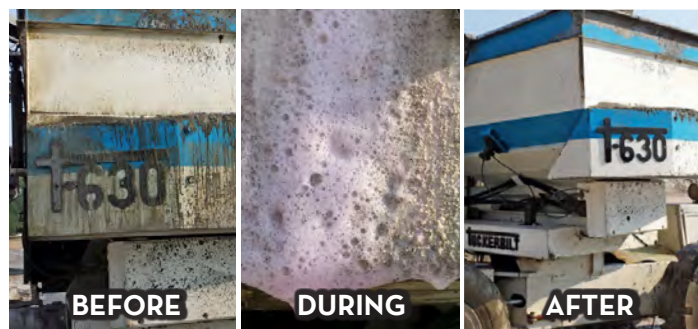


### BLAST-OFF®

- Water Based

**Fast-Acting, Biodegradable Concrete Remover**

Available in concentrated or ready-to-use versions. Quickly removes cement and concrete buildup on concrete forms, mixers, pumps, screeds, tools and more, and is non-corrosive to equipment and electrical components. Fast-acting organic acid derived from sugar beets; contains no mineral acids. Does not remove aluminum form seasoning when used to remove buildup on aluminum forms. For maximum results, use with Nox-Crete's Perfect Pump Foamer.



BLAST-OFF®

### FORM ARMOR

**Protective Corrosion Inhibitor**

Prevents steel forms from rusting during long-term storage. Form Armor chemically reacts immediately after application to form a protective coating that is both chemically and physically bonded to the form surface. Form Armor protects precast steel forms from rust corrosion for up to six months.



### KEM-EX-IT PLUS

- Water Based

**Rust and Concrete Buildup Remover**

Chemically breaks down and dissolves rust, concrete buildup and splatter on steel forms. Quickly removes rust resulting from forms left outside during storage. Eliminates the need for wire brushing or grinding. Deposits a protective chemical barrier on treated steel surfaces that protects forms against flash rust.



KEM-EX-IT PLUS

## FORM AND EQUIPMENT MAINTENANCE PRODUCTS

### DEACTIVATOR

- Petroleum Based

#### **The Original, Chemically Active Concrete Equipment Cleaning Compound and Maintenance Coating**

Deactivator chemically reacts with the alkalis in concrete to prevent fresh concrete from bonding and gradually softens existing concrete buildup. When applied to mixers, conveyors, pumps and other types of concrete handling equipment, Deactivator prevents the adhesion and accumulation of concrete buildup. Complies with all federal, state and local VOC requirements.

### FORM CLEAN

- Petroleum Based

#### **Dual Purpose Form Cleaner and Form Release Agent**

Form Clean chemically reacts with fresh concrete to prevent bonding while softening existing buildup on aluminum, steel, plastic, and overlaid plywood forms. Through repeated use, softened buildup is easily removed by a pressure washer, making Form Clean a cost-effective alternative to abrasive blasting, acid washing and scraping. Complies with all federal, state and local VOC requirements.

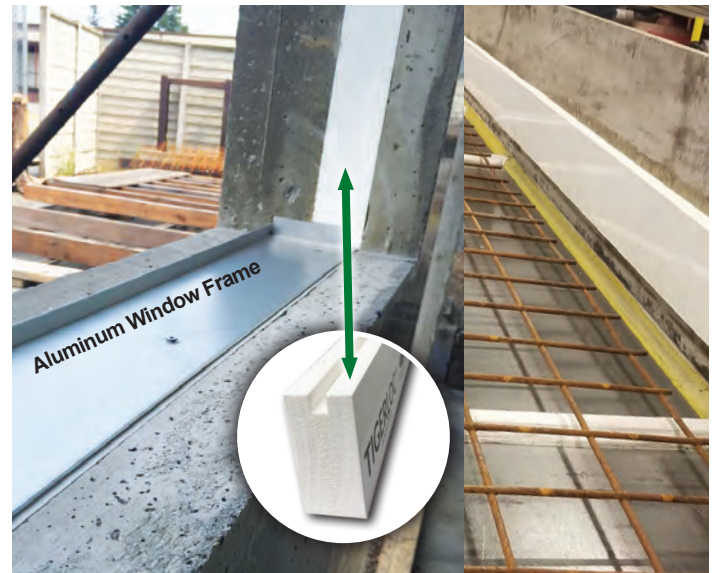
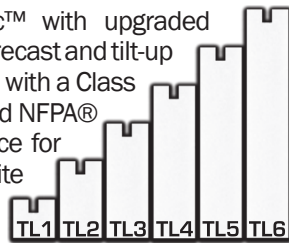
## ATTACHMENT EMBEDS

### TIGERLOC / TIGERLOC PLUS

#### **Structural, High-Strength Window and Door Attachment Embed for Concrete Wall Panels**



TigerLoc™ replaces dimensional lumber as a window and door embed and will not twist, warp or rot. TigerLoc's patented design allows concrete to lock into the edge groove for a secure hold. Window and door frames attach quickly and firmly using standard methods—without the hazardous silica dust from drilling into concrete. TigerLoc also absorbs sound and vibration, offers low thermal conductivity, and provides high insulating value—making it an ideal thermal block for energy code compliance in insulated concrete sandwich wall panels. TigerLoc™ Plus delivers all the benefits of the original TigerLoc™ with upgraded performance features. Engineered for precast and tilt-up concrete panels, TigerLoc Plus™ comes with a Class A fire rating, meeting ASTM E-8421a and NFPA® standards, making it an excellent choice for fire-resistant construction. See website for available dimensions.



**DOOR & WINDOW FRAMES FASTEN SECURELY ONTO TIGERLOC**

### NOX-STRUT

#### **Solid Channel Embedment Strut for Precast Concrete Utility Vaults and Precast Rail Cable Embeds**

Nox-Strut™ is a new solid embed strut specifically designed for precast utility vaults, which are crucial for housing electrical and communication lines. These vaults serve as essential access points to underground utilities, ensuring efficient and safe maintenance and upgrades. Traditional channel systems used in utility vaults often present challenges and limitations, including cumbersome installation processes and structural weaknesses. Our advanced design not only simplifies the installation process but also enhances the overall durability and functionality of utility vaults.



**No Cleaning After Strip | Lag Screw Installation | Place Racking & Done!**

### NOX-STRUT



## CURING COMPOUND

### BRO-CURE®

- Water Based



#### Silicate Based Curing Compound

An economical, inorganic precast curing compound that reacts with fresh concrete to cure by densifying the surface without changing the normal concrete surface texture. Bro-Cure is non-membrane forming, and leaves no residue which could interfere with the bonding of subsequent surface treatments, eliminating the need for mechanical or chemical removal. Bro-Cure contains a red fugitive dye for easy, uniform application.

## WATER REPELLENT

### STIFEL VC

- Water Based



#### Silane Sealer for Vertical Concrete

Stifel VC is designed for vertical concrete and brick masonry surfaces requiring long-lasting water protection. It penetrates deeply to help prevent damage from freeze/thaw cycles, deicing salts, and waterborne chlorides—all while maintaining the natural appearance of the surface and allowing it to breathe. Formulated specifically for vertical applications, Stifel VC minimizes product waste and dripping, ensuring efficient coverage and reliable performance.

## PVC RUSTICATION & CHAMFER

### CLEAN LINE REVEAL®

#### Standard and Custom Extruded

#### High-Density PVC Reveal for Precast

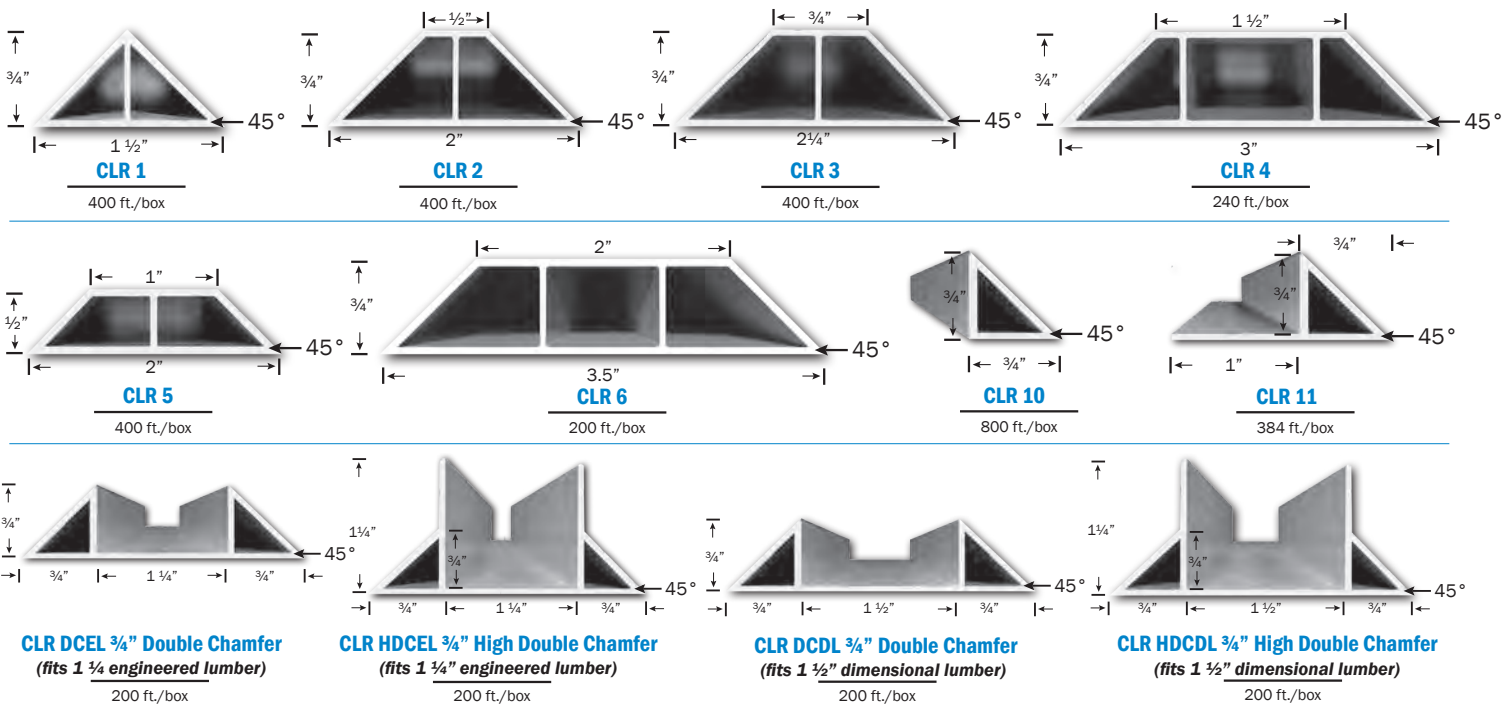
Made from high density PVC, Clean Line Reveal® is used to create design details and chamfered edges on precast panels. Available in 12 different profiles including a double chamfer, Clean Line Reveal® can be easily cut to length and glued in place using either cartridge or spray adhesives. The finished panel is left with an incredible smooth and uniform finish without concrete surface retardation or discoloration that can be caused by wood sugar migration from traditional wood reveals. Additional profile designs available with minimum order quantity.

- Uniform Finish
- Clean Release
- Easy Removal
- Lightweight & Durable
- Easy Installation/Fastening
- Eliminates Wood Retardation



CLEAN LINE REVEAL®

### STANDARD PROFILES



**EVAPORATION REDUCER / FINISHING AID**

**MONOFILM**

• Water Based

**Surface Evaporation Reducer for Concrete**

Monofilm extends concrete finishing working time during hot, dry and/or windy conditions. When applied on freshly placed concrete, Monofilm creates a monomolecular protective layer that reduces surface moisture evaporation by up to 80%. Monofilm reduces surface crusting, shrinkage cracking and the development of moisture envelopes that lead to spalling. Available in concentrated and ready-to-use versions.



reduces moisture loss, increases fluidity, and extends workability—giving finishers up to 45 extra minutes. It is especially effective at preventing surface crusting and craze cracking in mixes with Type 1L cement or high pozzolan content. Additives also reduce friction during hand and power troweling, creating a tighter surface while reducing worker fatigue.

**STAGE 1®**

**Combination Evaporation Reducer and Concrete Finishing Aid**

Applied after screeding and during finishing, Stage 1 reacts with calcium hydroxide to form calcium silicate hydrate gels that fill surface pores and capillaries. This



STAGE 1®

**MAGNET CLAMPS, ALUMINUM SIDEFORMS AND ACCESSORIES**

**Smarter. Easier. Lightweight. Reusable. Safer.**

**STEEL BED COMPONENTS**

1 Titan™ Magnet Clamp  
 2 Spartan™ Sideform  
 3 Spartan™ Sideform Capping  
 4 Spartan™ Rubber Base Insert  
 5 Spartan™ End Caps  
 6 Spartan™ Joiner Plates  
 7 Spartan™ Internal Corner System

Sideform available in a variety of sizes.

**MAGNET CLAMP & ALUMINUM SIDEFORM** - The SRB Precast Formwork System is a unique, lightweight, durable system that consist of the Titan™ Magnet Clamps and Spartan™ Sideforms. Together, these products provide unparalleled levels of accuracy, flexibility, efficiency and safety to precast plants. To ensure a long service life, Nox-Crete stocks a wide selection of replacement parts and magnet rebuild kits to keep your investment operating for years to come.

**NOX-CRETE IS THE NORTH AMERICAN DISTRIBUTOR OF SRB TITAN MAGNET CLAMPS AND SPARTAN SIDEFORMS**

# SOCOMAP - AUTOMATED PRECAST FINISHING SYSTEMS



## Versatile Finishing Control Center for Precast Walls

Expand your finishing capabilities, achieve the highly desirable look of polished concrete and granite with Socomap. Design panels with a polished or textured architectural face that includes the ability to grind in rustication features, engravings and more. Water is used during this process to eliminate silica dust. Socomap is the only machine of its kind to do these treatments vertically. **Socomap capabilities:**

- Polishing
- Grooving
- False Joints & Rustication Features
- Brushing
- Sanding
- Brush Hammering
- Engraving
- Honing
- Oblique Grooves & Much More!



**NOX-CRETE IS THE NORTH AMERICAN REPRESENTATIVE FOR SOCOMAP PRECAST FINISHING MACHINES**

# MOLDTECH FORMS AND EQUIPMENT

## HIGH-PERFORMANCE, COMPETITIVELY PRICED, CUSTOMIZED PRECAST EQUIPMENT

Moldtech offers innovative solutions to precast and prestressed facilities with a full-service approach, including design, manufacture, on-site installation/test production and after-sales service. With projects executed in more than 50 countries on 5 continents, Moldtech can truly bring unparalleled value to your precast facility.

With 30 years of experience and an ISO 9002-certified manufacturing facility, Moldtech has the innovation and



**EQUIPMENT FOR PRECAST CONCRETE PLANTS**

capability to manufacture forms and equipment to meet the precast and prestressed concrete industries' most difficult challenges.



**NOX-CRETE IS THE NORTH AMERICAN REPRESENTATIVE FOR MOLDTECH PRECAST FORMS & EQUIPMENT**

## HISTORY



**CARL LINN IN THE LABORATORY**



**DEACTIVATOR • FORM COATING**

### THE CONCRETE CHALLENGE

In 1956, while working for a lubricant company, chemist Carl Linn observed precast producers 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 concrete build-up and splatter continued to accumulate on form surfaces and concrete surfaces appeared stained and discolored. Precast producers struggled with these issues for years, but Linn had an idea.

### OUR CHEMICAL SOLUTIONS

Carl developed a chemically active release agent, Nox-Crete Form Coating, and a chemically active form equipment maintenance product, Deactivator. With Nox-Crete Form Coating, precast producers produced better looking concrete and spent less time cleaning their forms.

With Deactivator, concrete buildup was safely and easily removed from mixers, conveyors and equipment. And so, Nox-Crete's passion for solving concrete professionals' challenges was born.

### STILL INNOVATING WORLDWIDE

Today, Nox-Crete continues to manufacture chemical solutions to concrete problems. While still manufacturing the original Nox-Crete Form Coating and Deactivator, we have expanded our product line to include over 100 different products spanning six different market segments that are sold through a worldwide network of distributors and dealers.

Following Carl Linn's example, we continue to rely on our customers for new product ideas. Our chemists and engineers examine field problems and develop solutions in our laboratory.

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

### CONCRETE MARKETS WE SERVE

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



chemical solutions to concrete problems

