

PREPARATION SYSTEM 100

WHEN USING THE X-BOND OVERLAY SYSTEM

Product Descriptions:

Stone Soap is a highly concentrated, heavy duty cleaner formulated for cleaning without harming finished surfaces. **Stone Soap** is a 100% biodegradable product. **Stone Soap** is a user friendly, environmentally-responsible product that is excellent for cleaning any surface.

IF GREASE, OIL, HEAVY STAINS, OR WAX IS PRESENT USE POWER CLEANER FIRST....

POWER CLEANER is a highly concentrated, commercial strength cleaner, degreaser, and stripper for commercial and industrial use. **POWERCLEANER**; formulated with a distinct blend of water softening agents, and nonionic surfactants that allows you to clean and dissolve the toughest grease/oil stains from almost any surface, including concrete. It does this by penetrating, suspending, emulsifying, and dissolving surface contaminants.

STANDARD CLEANING PROCEDURES FOR CONCRETE, TILE, & STONE SURFACES:

STEP 1:

1. Remove excess debris with a broom.
2. Pressure wash entire area to rinse any loose debris from substrate. If indoors, use a water hose w/ squeegee.
3. While substrate is damp apply **STONE SOAP** (4 parts water:1 part cleaner) to all areas and allow to stand for four or five minutes in order to re-emulsify these areas.
4. Use a low speed scrubber with a blue nylon concrete cleaning brush or a coarse broom to help agitate the surface and then pressure wash or rinse clean. Squeegee excess water, or wet vacuum the surface.

Allow to dry prior to starting the X-Bond Application.

IF GREASE, OIL, HEAVY STAINS, OR WAX IS PRESENT USE POWER CLEANER FIRST....

STEP 1:

1. Remove excess debris with a broom.
2. Pressure wash entire area to rinse any loose debris from substrate. If indoors, use a water hose w/ squeegee.
3. While substrate is damp apply **POWER CLEANER** (4 parts water:1 part cleaner) to all areas and allow to stand for four or five minutes in order to re-emulsify these areas.
4. Use a low speed scrubber with a blue nylon concrete cleaning brush or a coarse broom to help agitate the surface and then pressure wash or rinse clean. Squeegee excess water, or wet vacuum the surface.

STEP 2:

1. Wet areas and apply to a damp surface.
2. While substrate is damp apply **STONE SOAP** (4 parts water:1 part cleaner) to all areas and allow to stand for four or five minutes in order to re-emulsify these areas.
3. Use a low speed scrubber with a blue nylon concrete cleaning brush or a coarse broom to help agitate the surface and then pressure wash or rinse clean. Squeegee excess water, or wet vacuum the surface.

A pH test or palm test is required prior to Use of the X-Bond Overlay System. (QC)

QUALITY CONTROL

- Hand (palm) test for surface residue, rinse again and vacuum if required

Technical Questions call **1-800-33-SEMCO**.

COLORBOND SYSTEM APPLICATION PROCEDURE

COLORBOND SYSTEM: Is a modified portland cement & acrylic polymer based waterproofing overlay system. Applied directly to most substrates; including concrete, CMU, cement board, drywall, wood, tile, metal, & plastic.

COLORBOND SYSTEM includes:

- X-Bond Liquid – units of 1 or 5 gallons
 - X-Bond Color Activator
 - X-Bond Stone - 50lb bag
- (Do not add water)
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COLORBOND APPLICATION PROCEDURE

-On horizontal surfaces:

1. Prior to coating, it is important that the substrate is cleaned properly (**PREPARATION SYSTEM 100**).
 2. Apply **X-BOND Liquid** with medium nap roller to substrate as a primer Allow liquid to become tacky but not completely dry.
 3. **COLORBOND:** Add X-Bond Color Activator to X-Bond Liquid. For integral colored applications only.
 4. Mix 1 gallon of **X-BOND Liquid** to 25 lbs of **X-BOND Stone** thoroughly. (Mixing ratios differ dependent upon temperature, humidity and climatic conditions.) Use a 2:1 (Stone : Liquid) ratio for smaller batches.
 5. Use a pool trowel, hand trowel, or walk behind smoothing trowel to spread out mixture over the entire area. A concrete finishing broom can be used if a broom texture is desired.
 6. It is generally applied at a 1/16" to 1/8" thickness per coat; **Note: Always prime between coats.** If stamping; mix thicker and pour at 1/4" thickness, and use an overlay stamp for texturing.
 7. If applying over a smooth or glazed surface, a scratch coat is recommended prior to standard X-Bond applications. Apply a scratch coat with a concrete broom.
 8. Sanding may be needed if a smoother finish is desired, using 60-80 grit sanding screens for floor machines or 60-200 grit attachments for a palm or orbital sander for smaller areas.
 9. Allow 8 hours drying time and apply **PRE-STAIN BASE** as a primer prior to sealers.
- Note:** X-Bond must fully dry before recoating, usually 4-8 hours depending upon thickness and climate.
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On vertical surfaces:

1. For Concrete, Tile, Stone, FRP, CMU see (**PREPARATION SYSTEM 100**).
If applying over Drywall or Concrete Board Do Not use the **PREPARATION SYSTEM 100**. For Drywall and Concrete Board proceed with the application onto the dust free surface.
 2. Apply **X-BOND Liquid** with medium nap roller to substrate as a primer Allow liquid to become tacky but not completely dry.
 3. Mix 2-3 quarts of **X-BOND Liquid** to 25 lbs of **X-BOND Stone** thoroughly and consistent (Mixing ratios differ dependent upon temperature, humidity and climatic conditions.)
 4. Use hock masonry board to store **X-BOND** and apply vertically smooth and even with a pool trowel or smoothing trowel. Repeat as necessary, priming between coats. Carving, texturing, or stamping should be done prior to staining and X-Bond reaching its maximum set up and strength.
 5. Allow 8 hours drying time and apply **PRE-STAIN BASE** as a primer prior to sealers.
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NOTE: For glazed tile, grout joints, CMU raked joints, existing cracks, seams, control or expansion joints, flaking paint, or power trowel substrates Call **1-800-33-SEMCO** for technical support.

X-BOND SYSTEM APPLICATION PROCEDURE

X-BOND SYSTEM: Is a modified portland cement & acrylic polymer based waterproofing overlay system. Apply **X-Bond** directly to most substrates; including concrete, CMU, drywall, wood, tile, metal, & plastic.

X-BOND SYSTEM includes:

- X-Bond liquid – units of 1 or 5 gallons
 - X-Bond stone - 50lb bag
- (Do not add water)
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X-BOND APPLICATION PROCEDURE

-On horizontal surfaces:

1. Prior to coating, it is important that the substrate is cleaned properly (**PREPARATION SYSTEM 100**).
2. Apply **X-BOND** liquid with medium nap roller to substrate as a primer.
3. Allow liquid to become tacky but not completely dry. (2-3 minutes)
4. Mix 1 gallon of **X-BOND liquid** to 25 lbs of **X-BOND stone** thoroughly. (Mixing ratios differ dependent upon temperature, humidity and climatic conditions.) Use a 2:1 ratio for mixing smaller quantities. (2 part stone: 1 part liquid). For a thicker mix add an additional 1/2 part of stone.
5. Use a pool trowel, hand trowel, or walk behind smoothing trowel to spread out mixture over the entire area. A concrete finishing broom can be used if a broom texture is desired.
6. It is generally applied at a 1/16" to 1/8" thickness per coat; **Note:** ALWAYS PRIME BETWEEN COATS. If stamping; mix thicker and pour at 1/4" thickness, and use an overlay stamp for texturing.
7. If applying over a smooth surface, a scratch coat is recommended prior to standard X-Bond applications. Apply a scratch coat with a concrete broom.
8. Sanding may be needed if a smoother surface is desired, using 60-100 grit sanding screens for floor machines or 60-200 grit attachments for a palm sander for smaller areas.

Note: X-Bond must fully dry before recoating, usually 4-8 hours depending upon thickness and climate.

On vertical surfaces:

1. Prior to coating, it is important that the substrate is cleaned properly (**Consult a representative**).
 2. Apply **X-BOND** liquid with medium nap roller to substrate as a primer.
 3. Mix 3 quarts of **X-BOND** liquid to 25 lb of **X-BOND** Stone thoroughly for 3-4 minutes. (Mixing ratios differ dependent upon temperature, humidity and climatic conditions.)
 4. Use hock masonry board to store **X-BOND** and spread out smooth and even with a pool trowel or smoothing trowel. Repeat as necessary, priming between coats. Carving, texturing, or stamping should be done prior to staining and X-Bond reaching its maximum set up and strength.
 5. Allow 8 hours drying time and apply **PRE-STAIN BASE** as a primer prior to sealers.
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On patches or using as a crack filler:

1. Use **PREPARATION SYSTEM**.
2. Allow surface to dry.
3. Prime area with **X-BOND** liquid, use a thicker mixture / consistency and apply over areas to be patched. Always prime between coats, then sand the patch with a hand sander following full cure. If cracks are larger than 1/8 inch, a minimum of 6-inch wide fiberglass mesh must be used in order to reinforce a substrate link. Put fiberglass on top of **X-BOND** while it's still wet. After the first coat has dried, apply another thin coat of **X-BOND** over the fiberglass mesh with a trowel and even out smoothly, sand smooth after dry time has been achieved. Allow 2 - 4 hours to dry before prior to completing the overlay system.

Call **1-800-33-SEMCO** for technical support.

FULL PREPARATION SYSTEM

WHEN USING THE PRESTAIN SYSTEM WITHOUT X-BOND SYSTEM

Product Descriptions:

POWER CLEANER is a highly concentrated, commercial strength cleaner, degreaser, and stripper for commercial and industrial use. **POWERCLEANER**; formulated with a distinct blend of water softening agents, and nonionic surfactants that allows you to clean and dissolve the toughest grease/oil stains from almost any surface, including concrete. It does this by penetrating, suspending, emulsifying, and dissolving surface contaminants.

NU LIFT does exactly what its name implies it lifts out and removes dirt, efflorescence, hard water deposits and stains from concrete, grout and natural stone without harming or discoloring. **NU LIFT** cleaner is a formulated mineral acid that is user friendly.

STANDARD CLEANING PROCEDURES ON ALL SURFACES:

STEP 1:

1. Remove excess debris with a broom.
2. Pressure wash entire area to rinse any loose debris from substrate. **If indoors**, use a water hose w/ squeegee.
3. While substrate is damp apply **POWER CLEANER** (4 parts water:1 part cleaner) to your surface area; for oil/grease deposits allow it to stand for three to four minutes in order to re-emulsify these areas.
4. Use a low speed scrubber with a blue nylon concrete cleaning brush or a coarse broom to help agitate the surface and then pressure wash or rinse clean. Shop vacuum dirty solution. Do not allow it to dry.

STEP 2:

1. Apply **NU LIFT** Cleaner (1 part water:1 part cleaner) with a pump sprayer while the substrate is still damp
2. You must see the chemical reaction (fizzing) within the substrate to ensure that it is working. If there is no fizzing action, the surface is too damp or there is an existing sealer on it.
3. After applying **NU LIFT** Cleaner evenly use a low speed scrubber with blue nylon concrete cleaning brush or coarse broom to help agitate the surface, then pressure wash if exterior, or rinse clean and wet vacuum if applying to an interior surface.

STEP 3: (FINAL CLEANING STEP)

In order to assure the substrate is completely clean and its pH is balanced:

Use **POWER CLEANER** mixing ratio of (9:1) over the entire surface and agitate with a broom or power scrubber, pressure wash or rinse and vacuum until there is no sign of residue. Some heavily soiled surfaces may require a second cleaning or additional rinsing. **A pH test is recommended. (see QC)**

PRECAUTION: If you are not using the X-Bond System and the surface contains any type of paint or sealer; it must be removed with **SEMCO EZ OFF** prior to proceeding with the preparation system.

QUALITY CONTROL

- Hand (palm) test for surface residue, rinse again and vacuum if required
- Allow to surface to dry and then complete a test of the pH. Use a pH pencil and wet various small areas with distilled water. **A balanced pH is between 7-8 on the scale.**
- If pH is high, use Step 2 to reduce.
- If pH is low, use Step 3 to increase.
- To purchase a pH pencil or for any questions regarding the Preparation System call **1-800-33-SEMCO**.

PRE-STAIN SYSTEM & TOP COAT

(X-CÜÒVÒÁ €€ GŠUÙÙÁJÜÁŦ ÇVÒÁZC QÛPÁJÒCŠÒÜ)

PRE-STAIN SYSTEM is formulated with the latest technology in water-based systems. Special chemicals activate in the substrate to achieve the best environmentally safe, penetrating action, and to reduce the vapor transmission in concrete. When the **PRE-STAIN SYSTEM** penetrates into the substrate, the product chemically links, and bonds to the surface.

PRE-STAIN SYSTEM can achieve the effect of granite, marble, terrazzo, acid stain, distressed, opaque or antique finishes.

PRE-STAIN SYSTEM includes the Preparation System to ensure proper pH balance of the substrate and to ensure removal of any contaminants, and residue from the surface.

PRE-STAIN APPLICATION PROCEDURE

1. Prior to coating it is important that the substrate is cleaned properly. (**SEMCO PREPARATION SYSTEM**)
2. Apply when weather conditions are between 50 and 100 degrees only.
3. Use an airless sprayer, HLVP-(High volume low pressure), low-pressure pump sprayer, or pump sprayer.
4. Apply each coat thin and evenly, and always try a small test area first.

Note: **PRE-STAIN** Can be applied wet on wet (using a combination of Pre-Stain Color & Pre-Stain Base) for a marbleized or simulated acid stain effect. Different methods and equipment will result in different effects and outcomes with the stain.

TOP COAT FINISH

After the **PRE-STAIN** is completely cured, (Up to 24 hours) apply **X-CRETE 400** as sealer.

X-CRETE 400 is available in a Gloss or Matte Finish. **X-CRETE 400** is a quality, multi-faceted product, formulated with the latest technology in Polyurethane blends that produces an exceptional durable coating.

X-CRETE 400's unique Gloss finish topcoat that provides the most in environmentally safe; water based durability and shine, for interior and exterior use, and produces a polished surface.

Low Pressure or Airless Sprayer

1. Only apply if weather conditions are between 50 and 100 degrees.
2. Ensure surface is completely dry.
3. Using an airless sprayer with a tip size of 21, apply each coat thin & evenly. Do not allow to puddle.
4. Allow 3-4 hours before applying the second coat as done previously. Allowing each coat to dry will speed up the curing time. 3 Coats is recommended application.
5. Allow 24 days so the product can properly cure.
6. Apply Crystal Coat (3 coats) if a higher sheen is desired.

Note: If a higher sheen is desired substitute the SEMCO **X-CRETE 400** Sealer with SEMCO **X-TRA Gloss**. Or Apply SEMCO **CRYSTAL COAT** on top of the cured **X-CRETE 400**.

Call toll free 1-800-337-3626 for any questions.

PRE-STAIN SYSTEM & TOP COAT

(X-TRA GLOSS POLYURETHANE SEALER)

PRE-STAIN SYSTEM is formulated with the latest technology in water-based systems. Special chemicals activate in the substrate to achieve the best environmentally safe, penetrating action, and to reduce the vapor transmission in concrete. When the **PRE-STAIN SYSTEM** penetrates into the substrate, the product chemically links, and bonds to the surface.

PRE-STAIN SYSTEM can achieve the effect of granite, marble, terrazzo, acid stain, distressed, opaque or antique finishes.

PRE-STAIN SYSTEM includes the Preparation System to ensure proper pH balance of the substrate and to ensure removal of any contaminants, and residue from the surface.

PRE-STAIN APPLICATION PROCEDURE

1. Prior to coating it is important that the substrate is cleaned properly. (**SEMCO PREPARATION SYSTEM**)
2. Apply when weather conditions are between 50 and 100 degrees only.
3. Use an airless sprayer, HLVP-(High volume low pressure), low-pressure pump sprayer, or pump sprayer.
4. Apply each coat thin and evenly, and always try a small test area first.

Note: **PRE-STAIN** Can be applied wet on wet (using a combination of Pre-Stain Color & Pre-Stain Base) for a marbleized or simulated acid stain effect. Different methods and equipment will result in different effects and outcomes with the stain.

TOP COAT FINISH

After the **PRE-STAIN** is completely dry, (between 2 - 8 hours) apply **X-TRA GLOSS** as a sealer.

X-TRA GLOSS is also available in a Non Skid Finish. **X-TRA GLOSS** is a quality, multi-faceted product, formulated with the latest technology in Polyurethane blends that produces an exceptional Hi-gloss durable coating. **X-TRA GLOSS** unique gloss finish topcoat provides a wet look, durability and protection for the most demanding surfaces. Interior and exterior use.

HVLP Low Pressure, Airless Sprayer, or Roller Cover:

1. Only apply if weather conditions are between 50 and 100 degrees.
2. Ensure surface is completely dry and well ventilated.
3. Using an airless sprayer with a tip size of 19-21, apply each coat thin & evenly. Do not allow to puddle. A 1/4" roller, mohair, or adhesive roller cover may also be used.
4. Allow 3-4 hours before applying the second coat as done previously. Allowing each coat to dry will speed up the curing time. 3 Coats is recommended application.
5. Allow 24 days so the product can properly cure.
6. Apply additional coats & **CRYSTAL COAT** (3 coats) if a higher sheen is desired.

Note: If a lower sheen is desired substitute the SEMCO **X-TRA GLOSS** Sealer with SEMCO **X-CRETE 400 Gloss or Matte Finish**. Or **X-CRETE 500 Flat finish**.

Call toll free 1-800-337-3626 for any questions.

SEMCO X-CRETE 400 TOP COAT SYSTEM

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X-Crete 400 is formulated with the latest technology in polyurethane blend resin to provide the most environmentally-responsible, water-based sealer available in today's market. **X-Crete 400** is a high quality, multi-faceted product. It dries clear, creating a gloss look as it simultaneously seals, dust proofs, and protects. **X-Crete 400** is a unique, one-of-a-kind gloss finish topcoat, which provides a durable barrier resistant to stains and chemicals while providing a polished look for exterior and interior use. It's low V.O.C.'s properties exceed CA laws.

SEMCO's TOP COAT SYSTEM includes the Preparation System to ensure proper pH balance of the substrate and to ensure removal of any contaminants, and residue from the surface.

X-CRETE 400 APPLICATION PROCEDURE

1. Prior to coating it is important that the substrate is cleaned properly. (**SEMCO PREPARATION SYSTEM**)
2. Apply when weather conditions are good and between 50 and 90 degrees only.
3. Use an airless sprayer, HLVP-(High volume low pressure), low-pressure pump sprayer, or microfiber pad.
4. Apply each coat thin and evenly and always try a small test area first.

TOP COAT FINISH

After the **PRE-STAIN** is completely cured, (Usually 24 hours) apply **X-CRETE 400** as sealer. **X-CRETE 400** is available in a Gloss or Matte Finish. **X-CRETE 400** is a quality, multi-faceted product, formulated with the latest technology in Polyurethane blends that produces a one-of-a-kind polished appearance. **X-CRETE 400** is a unique gloss topcoat that provides the most in environmentally safe; water based durability and shine, for interior and exterior use.

Low Pressure HVLP or Airless Sprayer:

1. Only apply if weather conditions are between 50 and 100 degrees.
2. Ensure surface is completely dry. Ensure all joints and cracks are clean, and dry.
3. Using an airless sprayer with a tip size of 19, apply each coat evenly. Do not allow the material to excessively puddle, this often is caused by applying too heavy of a coat.
4. Using an HVLP – High Volume Low Pressure Sprayer a tip size of 3 to 5 is recommended.
5. Allow 3-4 hours before applying the second or third coats as done previously. Allowing each coat to dry will speed up the curing time. 3 Coats is recommended for all applications.
6. Allow 72 hours so the product can properly cure.
7. Apply Crystal Coat (3 coats) if a higher sheen is desired, or for high traffic areas.

Note: If a higher sheen is desired substitute the SEMCO **X-CRETE 400** Sealer with SEMCO **X-TRA Gloss**. Or Apply SEMCO **CRYSTAL COAT** on top of the cured **X-CRETE 400** Sealer.

Precaution: Do not allow product to get wet during drying or cure stages, or in direct sunlight exceeding 100 degrees as hazing or blushing may occur.

Call toll free 1-800-337-3626 for any questions or technical support.

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Colour Coat is an environmentally responsible product; formulated with the latest water based technologies this polyurethane blend is designed to chemically link to the surface with a superior bond of long lasting durable color. Colour Coat is a one-of-a-kind colored primer; sealer and hardener designed to resist water and chemical stains. Colour Coat is recommended for use on concrete, overlays, cementitious substrates. Colour Coat is VOC compliant and is approved for Interior and exterior use.

COLOUR COAT APPLICATION PROCEDURE

1. Prior to coating, it is important that the substrate is cleaned properly. (see Preparation System below)
1. Only apply when weather conditions are between 50 and 100 degrees.
2. Apply to a surface that is completely dry, and check pH balance before starting the application.
3. Spray, Roll, or brush Colour Coat onto substrate.
4. Allow to dry 2 to 4 hours before applying the second coat or third coats. Repeat same method used previously. Always allow the previous coat to completely dry before recoating.
5. If applying over a previously coated material, a third coat may be required.
6. If applied outdoors, turn off all sprinkler systems for a period of three days so the product can properly cure.

COLOUR COAT PREPARATION SYSTEM

STEP 1:

1. Remove excess debris with a broom.
2. Pressure wash entire area to rinse any loose debris from substrate. If indoors, use a water hose w/ squeegee.
3. While substrate is damp apply **POWER CLEANER** (4 parts water:1 part cleaner) (4:1) to areas that have heavy oil or grease deposits and allow to stand for four or five minutes in order to re-emulsify these areas.
4. Use a low speed scrubber with a blue nylon concrete cleaning brush or a coarse broom to help agitate the surface and then pressure wash or rinse clean.

STEP 2:

1. Apply **NU LIFT** Cleaner (1 part water:1 part cleaner) (1:1) with pump sprayer while substrate is still damp
2. You must see the chemical reaction (fizzing) with on the substrate to ensure that it is working. If there is no fizzing action, the surface is too damp or there is an existing sealer on it.
3. After applying **NU LIFT** Cleaner evenly use a low speed scrubber with blue nylon concrete cleaning brush or coarse broom to help agitate the surface, then pressure wash if exterior or rinse clean, and wet vacuum if applying to an interior surface.

STEP 3:

In order to assure the substrate is completely clean and is pH is balanced:

1. Apply **POWER CLEANER** mixing ratio of (9 parts water:1 part cleaner) (9:1) over the entire wet surface and agitate with a broom or power scrubber, pressure wash or rinse and vacuum until there is no sign of residue. Some heavily soiled surfaces may require a second rinsing.

A pH test should be conducted at this point and should read a 7/8 on the scale. Allow surface to dry before applying **Colour Coat**.