Exposed concrete is an inherently sustainable flooring solution that is
• Simplifies maintenance
• Improves gloss
• Enhances appearance and deepens color
• Extends stain-resistance
benefits:
be renewed or refreshed. It provides multiple advantages and
Nonetheless, it improves slip resistance for a safer floor.
Xtreme Shield enhances concrete appearances in both color and
texture. Though clear and non-yellowing, it deepens color and
apparent saturation. On a polished surface, it can be burnedish to a
high gloss, and periodically re-burnished to refresh appearance.
Nonetheless, it improves slip resistance for a safer floor.

FEATURES & ADVANTAGES
Xtreme Shield can be applied to newly finished concrete, or
polished concrete that has been previously protected but needs to
be renewed or refreshed. It provides multiple advantages and
benefits:
• Extends stain-resistance
• Increases slip-resistance
• Increases surface hardness
• Enhances appearance and deepens color
• Improves gloss
• Clear, non-yellowing
• Can be burnedish periodically to restore gloss
• Cures for foot traffic in 24 hours
• Simplifies maintenance
• Water-based

SUSTAINABILITY
Exposed concrete is an inherently sustainable flooring solution that is
durable, and offers a very long service life with only simple mainte-
nance. It lowers materials and energy-consumption by eliminating
the need for frequently replaced floor-covering materials.

In many situations, the concrete itself is already installed, further
reducing material-consumption. Exposed concrete floors require
minimal, low-impact maintenance, thereby lowering maintenance
energy-consumption and eliminating harsh chemicals and solvents
used to strip and wax some floor coverings.

PRODUCT DESCRIPTION
Xtreme Shield is a colloidal silica-based breathable penetrating
cementitious material, which translates into
energy-consumption and eliminating harsh chemicals and solvents

MATERIALS PACKAGING
Xtreme Shield is packaged as a concentrate, minimizing shipping and
handling expense.
1 Gallon / 3.78 litter container .............. (Concentrate)
5 Gallon / 19 litter bucket ................. (Concentrate)

Xtreme Hard Densifier concentrate is intended to be diluted with
water before use. *(See section: Mixing & Dilution)

COVERAGE RATES
We will yield different coverage results depending on the porosity
of the floor. Test on a small sample area to determine appropriate
application rate and technique before applying to entire project area.
*(See section: Project Testing)

Use these coverage rates as a starting point to determine a neces-
sary application rate:
RTU mixture .............. 1,200 – 1,800 sf/gal (37 – 49 m2/L)

The coverage rates are based on a mixed ready-to-use (RTU) gallon
of Xtreme Hard Densifier. *(See section: Mixing & Dilution)

*Important: (See the coverage chart on last page)

SAFETY PRECAUTIONS
WARNING: FOR PROFESSIONAL USE ONLY. BEFORE USING
PRODUCT, READ MATERIAL SAFETY DATA SHEET (MSDS) AND
INSTRUCTIONS ON PACKAGING. ALKALINE CONCENTRATE:
CONTACT CAN DAMAGE EYES, SKIN, AND OTHER BODY
TISSUES. HANDLE WITH CARE. EYE AND SKIN IRRITANT.
DIGESTIVE TRACT IRRITANT; DO NOT TAKE INTERNALLY. KEEP
OUT OF REACH OF CHILDREN. SPRAY MIST IS RESPIRATORY
TRACT IRRITANT. USE ONLY WITH ADEQUATE VENTILATION.
Do not breath vapors or spray mist. Avoid contact with eyes, skin,
and clothing. Observe appropriate safety and jobsite controls. Wear
appropriate protection including eye protection and chemical
resistant gloves. Ensure fresh airflow during application and until dry.
If you experience headaches, dizziness, eye watering, or if air
monitoring shows vapor/mist levels above applicable limits, wear a
Sealer
Technical Data Sheet
CODE: Xtreme Shield

*Updated May 2015. Subject to change. Contact Xtrema Polishing Systems.

properly fitted P100/organic vapor respirator (NIOSH TC-84A approved), used according to manufacturers directions, during application and drying.

MIXING & DILUTION

Xtreme Shield is shipped as a concentrate. Before use, it must be diluted with clean potable water in a ratio of 1:1.

1. Before opening Xtreme Shield container, shake to agitate the concentrate.
2. Pour one part Xtreme Shield concentrates into mixing container or directly into sprayer.
3. Add 1 part clean potable water to make Xtreme Shield Ready-To-Use (RTU) mixture.
4. Mix for 30 seconds using low-to-medium speed drill and mixing paddle, or shake sprayer for 60 seconds, until mixture is homogeneous and uniform.

We recommend calculating the quantity of material needed for the immediate work at hand, and only making as much Xtreme Shield RTU mixture as needed. Left over RTU mixture can be stored in an air-tight container, and needs to be used within 2 months after being mixed from concentrate, or the stated expiration date, whichever comes first. Manufacturing date can be found within the batch number on the original packaging. Over prolonged periods of time, RTU mixture may settle. Before using RTU mixture, agitate container to mix contents.

*Important: The water used to dilute Xtreme Shield concentrate must be clean potable water. Any contaminates in the water could reduce shelf life of RTU mixture.

EQUIPMENT

- Apply using a low-pressure pump sprayer.
- Spread with a micro-fiber or flat cotton pad applicator.

PRE-APPLICATION

Advanced planning is critical to all successful concrete work, including the use of Xtreme Shield.

Any adjacent areas, surfaces, or objects not intended to be treated with Xtreme Shield should be protected from overspray or drift with plastic sheeting or other proven protective material.

Measure area (square feet/m²) that will require Xtreme Shield.

Mix an appropriate quantity of Xtreme Shield for job-size, per instructions in section: Mixing & Dilution, using estimated coverage rates in section: Covering rates.

Check that sprayers and tips are in working order.

Designate trained operator(s) to apply Xtreme Shield throughout project, to ensure consistent application.

PROJECT TESTING

To assure that performance and slip-resistance specifications are met, and that desired appearance is achieved, test a sample area of each slab to be treated, applying the complete sequence of proposed treatments using the proposed methods and techniques, coverage rates, and equipment, with the work performed by the same installation personnel who will do the project. Test section should be large enough to properly represent the overall slab. Specific to Xtreme Shield, check whether coverage rate is appropriate, that concrete accepts the product, and that desired appearance is achieved after burnishing. Test to determine that safe levels of wet and dry slip resistance are achieved after application of Xtreme Shield.

APPLICATION GUIDELINES

Application of Xtreme Shield may vary depending on the type of project and other jobsite specifics. The information provided is best practice guidelines for Xtreme Shield. Every project will present variables that may require adjustment of application procedures during the job. These guidelines are based on terminology used within the concrete and flooring industry sector.

1. Agitate Xtreme Shield RTU mixture before pouring into sprayer.
2. Pour Xtreme Shield RTU mixture into sprayer. Keep sprayer at optimized levels, allowing even distribution when applying to concrete surface.
3. Dampen a micro-fiber or flat cotton pad applicator with Xtreme Shield
4. Spray apply Xtreme Shield to concrete surface in a light mist, holding spray tip 12-24 inches above surface and moving in a circular motion to achieve even distribution.
5. Use the pad applicator to spread the Xtreme Shield spray in a thin film coat, using a “figure 8” motion to reduce streaking and prevent puddling. Work leaving a wet edge. Work-in areas bordered by joints or natural breaks. If product becomes too “sticky” to work easily, moisten applicator pad with water.
Sealer
Technical Data Sheet
CODE: Xtreme Shield

*Updated May 2015. Subject to change. Contact Xtreme Polishing Systems.

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PHYSICAL PROPERTIES

- Appearance: ................. milky white liquid
- Drying Time: ................. 20 minutes to 1 hour
- VOC Content: .................. 25 g/l
- Active Ingredients: .......... 100% of total solid
- pH: ..................... 10-11
- Freeze point: ................. 32 F
- Shelf Life: ................. 1 year
- Coverage: ................... 1500-2000 ft2 / gal (37m2 – 49 m2/L)

STORAGE & SHELF LIFE

Xtreme Shield should be kept in the original container when possible, with the lid fastened tightly. Xtreme Shield concentrate has an optimized shelf life of 12 months from the date of manufacture. This date is available on the batch reference number on the original container.

Storage of RTU mixture: Section: Mixing & Dilution

Keep in a cool, dry place raised off the floor. Keep in temperature range from 40-100 F / 4-38 C

*Important: Do Not Allow To Freeze

FIRST AID

- Ingestion: Not expected to be toxic. Never give an unconscious person anything to ingest. If swallowed, immediately give to glasses of water. DO NOT INDUCE VOMITTING. Seek medical attention if ill effects develop.

- Inhalation: May cause irritation. Remove to fresh air and provided oxygen. If not breathing, give artificial respiration. Seek medical attention if irritation persists.

- Eye Contact: Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

- Skin Contact: May cause irritation. Wash affected area with soap and water. Remove contaminated clothing and shoes. Seek medical attention if irritation persists.

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LIMITATIONS & IMPORTANT NOTES

- Xtreme Shield is a breathable penetrating concrete sealer; but it must be considered a sacrificial layer requiring periodic renewal, not a permanent sealer.
- Xtreme Shield is not a membrane-forming curing compound.
- Xtreme Shield provides temporary protection from staining and etching agents, but it will not seal or prevent staining indefinitely. Spills must be removed in a timely manner to assure complete protection of the floor finish.

The original installer should check performance of the Xtreme Shield application yearly or another qualified professional, to determine when renewal of the protection is required.

Job site samples are strongly recommended prior to application of all Xtreme Polishing Systems' products.

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XTREME SHIELD SEALER USED WITH

- Xtreme Hard ................. (Larger particle densifier)
- Xtreme Shield ................. (Color enhancer & stain reducer)
- Xtreme Cleaner ................. (Colloidal silica cleaning agent)
- Xtreme Colorz .................. (Penetrating colorant concentrate)

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MAINTENANCE

Only an approved maintenance regimen should be used. Remove dust and debris daily. Clean daily or weekly using Xtreme Clean or other neutral pH cleanser. Avoid acidic cleaners and detergents containing hydroxides or sulfates as these may etch or dull the surface. Consult Xtreme Polishing Systems for more information.

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6. Allow drying tack-free before burnishing or applying a second coat.
7. Apply second coat using the same procedures, steps 1-5.

High speed burnishing using a diamond-impregnated fiber pad, or hogs-hair fiber pad, will enhance the finished surface.

Cure finished floor for 24 hours before allowing regular foot traffic. Do not allow standing water to remain on the surface for the first 72 hours. Xtreme Shield is intended for interior use.

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624x317x744 The chemistry of concrete to produce more cementitious material, which translates into higher performance concrete.

Colloidal Silica is at the heart of concrete technology. It is a substance that reacts with the chemistry of concrete to produce more cementitious material, which translates into higher performance concrete.
The chart offers generalized guidelines of application rates and recommended diamond-grit stages for application of Xtreme Hard Densifier, according to the condition of the slab. High porosity or heavily damages concrete could require multiple applications of Xtreme Hard Densifier. In some instances, Xtreme Hard Densifier XL, which features larger silica particle size, may perform more efficiently in “rescuing” soft or damaged slabs. Both densifiers work well together to solve many problematic polished concrete issues.

<table>
<thead>
<tr>
<th>Concrete Condition</th>
<th>Possible Applications</th>
<th>Basic Coverage</th>
<th>Second Coat Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Porous Condition Concrete</td>
<td>2 Coat Application</td>
<td>1000–1200 ft per Gallon</td>
<td>1200–1800 ft per Gallon</td>
</tr>
<tr>
<td>Normal Condition Concrete</td>
<td>1 Application</td>
<td>1200–1800 ft per Gallon</td>
<td>Optional: 1500–2000 ft per Gallon</td>
</tr>
<tr>
<td>Hard Condition Concrete</td>
<td>1 Application</td>
<td>1500–2000 ft per Gallon</td>
<td>Optional: 1500–2000 ft per Gallon</td>
</tr>
</tbody>
</table>