STARSEAL® HBC TEXTURED EMULSION &  
STARSEAL® HBC SMOOTH EMULSION  
HIGH BUILD MASONRY COATING AND WATER PROOFER

DESCRIPTION
STARSEAL HBC TEXTURED & SMOOTH EMULSION are manufactured from emulsion modified acrylic resins with select pigments and fillers including portland cement, to produce a decorative high-build acrylic waterproof coating. This product provides an attractive, breathable, protective coating that enhances the aesthetic appearance of vertical concrete, masonry, block, wood and primed metal surfaces.

Provides excellent adhesion and years of weathering and waterproofing protection from the elements. The product’s one coat application saves time and money over typical two and three coat systems.

BENEFITS
Performance
- Resistant to UV light, molds and mildew
- Withstands 100 mph wind driven rain
- Covers surface blemishes, cracks and surface imperfections
- Excellent adhesion
- Prevents ingress of chlorides
- Moisture resistant prevents blistering, peeling, cracking and staining
- Bridges hairline cracks
- Exceeds all the performance requirements of Federal specifications TTC-555B and TTP-1411 for waterproofing
- Apply down to 40°F (4°C) and rising
- Performance warranty
- Breathable
- Can be applied below grade on footings

Application Advantages
- One coat application
- Apply over highly alkaline surfaces
- Apply to fresh or damp concrete and masonry surfaces
- Apply above and below grade
- Suitable for interior and exterior applications

Money Saving
- No primer required
- Fast track one coat application
- Outlasts and out performs conventional paints and coatings
- Lower maintenance costs

Design Options
- 30 attractive standard colors
- Custom color matching
- Available in smooth, sand or fine, medium or coarse textures

RECOMMENDED FOR
Provides decorative, functional protective coating for:
- Retaining Walls
- Precast Concrete
- Building Façade
- Roof Members
- Median Barriers
- Bridges
- Tilt-up Panels
- CMU
- Sound Walls
- Tunnels
- Ceilings
- Columns
- Parapets
- Stucco
- Roof Members
- CMU
- Parapets
- Building Façade
- Balconies
- Columns
- Parapets
- Stucco

SURFACE PREPARATION
- Surfaces should be cleared of all foreign materials such as oil, grease, asphalt, atmospheric stains, dirt and powdery substances using one of Vexcon’s Concrete and Masonry Cleaners. For more information go to vexcon.com/cleaners.
- On existing masonry or concrete surfaces where there is loose scaly residue, sandblasting or wire brushing may be necessary.
- Small cracks, voids and blemishes may be filled with Certi-Vex® Patch RTU or Certi-Vex Patch FP.
- Large holes and damaged areas should be repaired using one of Vexcon’s high quality vertical repair mortars.
- Plywood, wood and metal surfaces should be primed with Certi-Vex AC 1315 or StarSeal 1315.
- For a complete high performing waterproof system apply a first coat of StarSeal Block Fill Emulsion to masonry block concrete to fill in the pores and capillaries and provide a uniform, sealed surface.

APPLICATION
- Before applying follow the directions for surface preparation above.
- StarSeal HBC Textured or HBC Smooth Emulsion may be applied to damp concrete or masonry surfaces. Apply by ½” to 1” roller depending on surface or spray (see equipment section).
- Roller should not be permitted to dry. Keep roller wet with paint. Lay off top coating, back roll in one direction only with wet roller, taking roller off the wall with each stroke to prevent swirls and W’s.
- Use 1” nap roller to achieve a pin hole free surface. A single continuous coat will provide waterproofing properties, but it is always suggested to use a thinner second coat to even out application. First coat should be dry before applying additional coat.
- Material must be mechanically stirred thoroughly before use. Shaking is not sufficient, mechanical mixing must be used.
- When spraying, particular care must be taken with spray overlap area. Proper technique for spraying calls for a pattern one half the diameter that is used for typical masonry coatings.
- StarSeal HBC Textured/Smooth Emulsion may be applied to damp or fresh concrete as long as there are no slick water surface spots visible.
- Do not apply if rainfall is imminent or on frosted or frozen surfaces. Properly applied in accordance to conditions, rain resistance 6-8 hrs. based on physical properties data reporting.
- Can be applied when air and surface temperatures are 40°F (4°C) - 85°F (29°C). If air and surface temperatures are below 40°F (4°C) or above 85°F (29°C), consult Vexcon’s Cold Weather Application Guide (TN195) or Hot Weather Application Guide (TN194).
- Do not apply on highly windy days. Be especially careful of overspray.
- The material can be thinned slightly with water and applied by brush or roller, however, spraying is recommended.
- Application at a rate of 50-80 sq.ft./gal (1.25-2.0 m²/L) will provide an average dry film thickness of 13-18 mils (330-460 µm). Be careful to match color and texture when re-coating (see coverage chart).
Coating, Water Resistant, Acrylic Coating for Masonry & Concrete Manufactured from
Specially Formulated Proprietary Resins

<table>
<thead>
<tr>
<th>Decorative, Water Resistant, Acrylic Coating for Masonry &amp; Concrete Manufactured from Specially Formulated Proprietary Resins</th>
<th>STARSEAL HBC SMOOTH EMULSION</th>
<th>STARSEAL HBC TEXTURED EMULSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>System</td>
<td>Modified Acrylic Emulsion</td>
<td>Modified Acrylic Emulsion</td>
</tr>
<tr>
<td>Meets VOC – Waterproofing Concrete Masonry Sealer</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>VOC</td>
<td>&lt;350 grams/liter</td>
<td>&lt; 350 grams/liter</td>
</tr>
<tr>
<td>Colors</td>
<td>Polar White/White Tint Base and 30 Standard Colors</td>
<td>Polar White/White Tint Base and 30 Standard Colors</td>
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<tr>
<td>Textured</td>
<td>Smooth</td>
<td>Fine, Medium, Course</td>
</tr>
<tr>
<td>Reducer</td>
<td>Water</td>
<td>Water</td>
</tr>
<tr>
<td>Tainting</td>
<td>White/Tint Base To A Wide Variety of Colors</td>
<td>White Tint Base To A Wide Variety of Colors</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>53%</td>
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<tr>
<td>Weight Solids</td>
<td>67%</td>
<td>73%</td>
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**Block Stucco**

<table>
<thead>
<tr>
<th>Application</th>
<th>1 Coat Application</th>
<th>2 Coat Application</th>
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<th>2 Coat Application</th>
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</thead>
<tbody>
<tr>
<td>60-80 sq.ft./gal</td>
<td>120 sq.ft./gal</td>
<td>180 sq.ft./gal</td>
<td>90 sq.ft./gal</td>
<td>140 sq.ft./gal</td>
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<tr>
<td>1st Coat</td>
<td>120-160 sq.ft./gal</td>
<td>180 sq.ft./gal</td>
<td>100 sq.ft./gal</td>
<td>140 sq.ft./gal</td>
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<tr>
<td>2nd Coat</td>
<td>180 sq.ft./gal</td>
<td>240 sq.ft./gal</td>
<td>120 sq.ft./gal</td>
<td>180 sq.ft./gal</td>
</tr>
<tr>
<td>Final Dry Film Thickness</td>
<td>14-18 mils.</td>
<td>20-25 mils.</td>
<td>12-16 mils.</td>
<td>18-22 mils.</td>
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**Smooth Concrete and Brick**

<table>
<thead>
<tr>
<th>Application</th>
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<th>2 Coat Application</th>
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<th>2 Coat Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>70-90 sq.ft./gal</td>
<td>120 sq.ft./gal</td>
<td>90 sq.ft./gal</td>
<td>70 sq.ft./gal</td>
<td>100 sq.ft./gal</td>
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<tr>
<td>1st Coat</td>
<td>140-180 sq.ft./gal</td>
<td>160 sq.ft./gal</td>
<td>100 sq.ft./gal</td>
<td>140 sq.ft./gal</td>
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<tr>
<td>2nd Coat</td>
<td>180 sq.ft./gal</td>
<td>240 sq.ft./gal</td>
<td>120 sq.ft./gal</td>
<td>180 sq.ft./gal</td>
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<tr>
<td>Final Dry Film Thickness</td>
<td>9-12 mils.</td>
<td>12-16 mils.</td>
<td>8-12 mils.</td>
<td>12-16 mils.</td>
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**PHYSICAL PROPERTIES**

- **Weight Solids**: 67-73%
- **Dry Time**: approx. 4 hrs. check for completeness of dry prior to recoating
- **Wt/gal**: 10-12 lbs

Note: Dry time and curing time depends on air temperature and film thickness. All calculations based upon 68-77°F (20-25°C) at 50% RH. Low temperatures and relative humidity will extend dry time.

**SPRAYING EQUIPMENT INFORMATION**

**Spraying Textured Only**

- **Pump**: Graco Model HTX 2030
- **Gun**: Graco Model 24R-054
- **Tip**: 3/8 in. dia. round as specified below
- **Fine**: 167-329 with disk 235-579
- **Medium**: 167-330 with disk 235-580
- **Coarse**: 248-527 with disk 235-581
- **Fluid Hose**: 3/4 in. (19mm) ID
- **Air Hose**: 3/8 in. (10mm) ID
- **Air Pressure**: 80 lbs minimum 25 CFM

**Spraying Smooth Only**

- **Electric**: Graco Ultra 1000
- **Air**: Graco Bulldog 30-1
- **Gas**: Graco 5000

Spray equipment must be cleaned and maintained in accordance with manufacturer’s directions. Consult Vexcon for additional recommendations on spraying equipment and technique.

**SPECIAL NOTES**

- All performance specifications and water-proofing characteristics are based on pinhole free applications.
- **Shelf Life**: If properly stored in its original sealed container, one (1) year form date of manufacture. Rotate your stock.
- **Storage/Handling**: Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Care should be taken to keep dirt, water, and contaminants away from the opening of containers.
- **Delivery**: Deliver materials to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- **Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location.**
- **Warranty**: Subject to material Limited Warranty and Terms and Conditions of Sale. For more information go to vexcon.com.

**WARRANTY**

- Many applications have been in place for over fifteen (15) years. Material applied to manufacturer’s instructions over suitably cleaned surfaces at the proper film thickness is covered by a five-year warranty. For more information go to vexcon.com.

**HEALTH AND SAFETY**

- **Use of respirators is mandatory when using this product in confined areas.**
- **Use only with adequate ventilation.**
- **If swallowed, do not induce vomiting.**
- **Use of gloves, goggles and other protective clothing is advised when using this product.**

Vexcon SDS VW103 is an integral part of the safety and application of this product. Before using product, obtain a copy from your distributor or visit vexcon.com.

**CONTACT US @**

Addtional product information, technical and customer services are available by contacting Vexcon Chemicals directly or our distributors.

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