PROCOCAT HBE FLOORING SYSTEM
HIGH BUILD • HEAVY DUTY • CHEMICAL RESISTANT • MOISTURE TOLERANT

DESCRIPTION
PROCOCAT HBE is our top of the line, moisture tolerant 100% solids, two-component, clear and colored, heavy duty multi-purpose epoxy coating. The product provides a tough and extremely durable seamless coating with excellent adhesion, flexibility, as well as maximum impact, abrasion, and chemical resistance to commonly encountered acid and alkali chemicals and many solvents. For added UV resistance top coat with ProCoat UR.

ProCoat HBE can also be applied to fresh concrete for fast track (3 day) project completion when ProCoat Primer is used.

BENEFITS
- Available in clear gloss 19 standard and custom colors. See High Performance Coatings brochure.
- Best chemical resistance including acids, alkalis, solvents and salts
- Superior durability & adhesion
- Excellent abrasion and impact resistance
- Waterprooﬁng and protects
- Eliminates the need to mitigate moisture from concrete
- UV resistant with ProCoat UR top coat
- Apply to fresh concrete to complete projects faster
- Quick drying

MOISTURE TOLERANT
ProCoat HBE features Vexcon’s exclusive Breathable Technology for long-term prevention of blistering and peeling. The ProCoat moisture tolerant system is designed to reduce the adhesion failure associated with epoxy and polyurethane coatings due to moisture in concrete. (Requires ProCoat Primer) ProCoat moisture tolerant technology allows moisture vapor to pass through rather than becoming trapped, preventing blistering, cracking, and peeling. ProCoat is guaranteed to reduce moisture vapor emissions (MVER) from as high as 20# per ASTM F-1869 calcium chloride test results and 89% RH to below 3.0#/sq.ft./24hrs.

BROADCAST SYSTEMS
Decorative multi-colored quartz aggregate and vinyl chip systems designed to provide a customized attractive and durable ﬂoor. Top coat with ProCoat HBE and optional ProCoat UR where UV resistance is required. Alternatively use natural quartz silica broadcast into ProCoat HBE pigmented base coat and sealed with epoxy clear or pigmented topcoat.

RECOMMENDED FOR
Demanding commercial, industrial, and institutional environments that require a durable and chemical resistant seamless ﬂoor coating.

COMPLIANCE
- VOC: <50 grams/liter or < 0.33 #/gal (Clear & Pigmented)
- Meets
  - US EPA AIM – Industrial Maintenance Coatings
  - OTC – Industrial Maintenance Coatings
  - LADCO/MRPO – Industrial Maintenance Coatings
  - CEPA/EC – Industrial Maintenance Coatings
  - SCAQMD – Industrial Maintenance Coatings or Floor Coatings
  - CARB – Industrial Maintenance Coatings
- Chemical Resistance – Contact Vexcon Chemicals for more information.

PROCOCAT PRODUCTS
ProCoat Primer – water base single component primer used when a moisture tolerant ProCoat system is desired and for fast track projects. See product data sheet.

ProCoat HBE – Pigmented and clear epoxy coatings available in 19 standard and custom colors. See High Performance Coatings brochure.

ProCoat UR – UV resistant urethane coating. See product data sheet.

Certi-Vex® Deco Chips – Decorative multi-colored vinyl chips

Certi-Vex® Deco Quartz – Natural or multi-colored quartz aggregate

APPLICATION - NEAT
- For fresh fast track concrete floors, surface must be primed with ProCoat Primer and allowed to dry for minimum of 8 hrs. prior to application of neat ProCoat HBE.
- For existing concrete floors, ProCoat is self priming on concrete that has an ICRI CSP 1-2 profile or prime with ProCoat Primer and allowed to dry for at least 4 hrs. prior to application of neat ProCoat HBE.
- Large cracks should be repaired using PowerCoat® Epoxy Flexible Joint Sealant.
- Pre-condition material to between 65°F (18°C) and 75°F (24°C).
- The coating is supplied in two parts, A and B, which are mixed together just prior to use.
- Same lot numbers should be used throughout the project. If lot numbers differ, box-mix prior to use. If different lots are used, apply a thin top coat to the entire area using same lot number.
- Apply by industrial paint sprayer or notched squeegee.
- Apply by sprayer which is designed for 2 component epoxy or urethane coatings. See Technical Note TN170 available at vexcon.com.
- Do not use pump up or light duty sprayer designed for low viscosity coatings.
- If using a ¼” nap roller or notched rake do not overwork the material. Coat in one lapping direction only; overworked material can affect film properties.
- Based on temperature and RH the mixed material has a pot life of approximately 26 to 40 minutes. See DRY TIME section.
- Two coats are required, second coat can be applied after the first coat has thoroughly dried. The dry time is dependent on temperature, air flow, film thickness, and concrete conditions, not a speciﬁc number of hours. Do not put on a second coat if the first coat is not dry.
- To protect your ProCoat ﬂoor from ongoing construction dust, dirt, and debris, use Certi-Vex® Tale Release until construction is completed.
- Clean application equipment daily with Certi-Vex® Equipment Cleaner.
- To improve non-slip proﬁle, use Certi-Vex® Grip or Non-Slip Additive.
DRY TIME
- The relative humidity, surface and air temperature will affect dry times.
- High humidity will extend dry times and require positive air flow for adequate drying. This is accomplished with the use of fans (do not blow fans directly over surface), open windows, or doors to properly circulate the air.
- Low temperatures will also extend dry times.
- NOTE: Surface temperatures can vary from ambient. Do not apply if surface temperatures are below 60ºF or above 85ºF.
- Material must be within temperature ranges prior to application.
- Do not apply second coat until the first coat is dry. Test for dryness by pressing clear scotch tape hard onto the surface. Leave for 5 minutes, remove. If tape is clean, the surface is dry.

SPECIAL NOTES
- ProCoat HBE systems have splash and immersion resistance to many chemicals and can be used in areas where splashed materials will be removed in reasonable times, usually 4-24 hours. For immersion test information, see TN168. If chemical is not on list, do not use in constant immersion applications without contacting Vexcon.
- Do not apply below 60ºF (15ºC) or above 85ºF (29ºC). When temperatures are outside this range review Vexcon’s Hot and Cold Weather Application Guides, available at vexcon.com.
- No coat should be applied without proper surface preparation including surface abrasion after full cure.
- A second coat can be applied after 6 hours and within 48 hours without abrading the surface.
- Maintenance-clean regularly with StarSeal® EF Degreaser & Cleaner.
- For use by experienced contractors only.
- A semi-gloss/matte finish will develop in 7 days if using clear semi-matte gloss.
- Shelf Life: If properly stored in its original sealed containers, two (2) years from 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: All products are sold subject to Vexcon’s published materials Limited Warranty and Terms and Conditions of Sale and can be changed without notice. You may view our Warranty’s and Terms and Conditions of Sale at vexcon.com.

HEALTH AND SAFETY
Vexcon SDS CP202 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product obtain a copy of the SDS from your distributor or visit vexcon.com.

PACKAGING

<table>
<thead>
<tr>
<th>Component</th>
<th>PKG</th>
<th>VOL</th>
<th>WT</th>
<th>%</th>
<th>VOLUME %</th>
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<tbody>
<tr>
<td>ProCoat HBE Clear</td>
<td>17.08</td>
<td>2.0</td>
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<td>60%</td>
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<td>ProCoat Primer</td>
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<tr>
<td>Totals</td>
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<td>ProCoat Resin</td>
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<td>Totals</td>
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YIELD: 4 gallons of finished coating. When using other containers to measure smaller volumes, the above ratios must be used.

COVERAGE RATES/ESTIMATING
- Apply ProCoat Primer at 200-300 sq ft/gal. **Note:** After application, surface must have an even sheen. If sheen is uneven or patchy, apply a second coat of primer at 300 sq ft/gal.
- Estimate ProCoat HBE at 80 sq ft/gal. (2.0 m²/L) depending on desired film thickness and porosity of concrete. Actual application is in two coats, not one thick coat. Calculated final dry film thickness is based on two coats.

**ProCoat Primer**

<table>
<thead>
<tr>
<th>Test</th>
<th>Characteristic</th>
<th>Results</th>
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<tbody>
<tr>
<td>ASTM B88</td>
<td>Tensile Strength</td>
<td>7 Day Cure – 5210 psi</td>
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<tr>
<td>ASTM D4060</td>
<td>Abrasion Resistance</td>
<td>Cs17 wheel/1000g/1000 revs</td>
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<tr>
<td>ASTM D2240</td>
<td>Hardness</td>
<td>20 mils – 84 – Pigmented</td>
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<tr>
<td>ASTM D4541</td>
<td>Adhesion</td>
<td>No Primer - 20 mil – 7 day – 400 psi</td>
</tr>
<tr>
<td>ASTM F1869</td>
<td>Breathability</td>
<td>Moisture Vapor Emission</td>
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<tr>
<td>ASTM D522</td>
<td>Flexibility</td>
<td>Method II, 1/8” Mandrel</td>
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<tr>
<td>ASTM D525</td>
<td>Gloss 60°</td>
<td>90 units</td>
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<tr>
<td>ASTM F84</td>
<td>Fire Rating</td>
<td>Flame Spread Index: Class A</td>
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<tr>
<td>ANSI B101.1</td>
<td>Slip Resistance</td>
<td>Static Coefficient of Friction</td>
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<td>B101.3</td>
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<td>ProCoat HBE (wet) - 0.81</td>
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<td>ProCoat HBE (wet) - 0.43</td>
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**ProCoat HBE**

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**CONTACT US @**
Additional product information, technical assistance and customer services are available by contacting Vexcon Chemicals directly or our distributors.

- vexcon.com
- techservice@vexcon.com
- customerservice@vexcon.com
- sales@vexcon.com
- Voice: 888.839.2661
- Fax: 215.332.9997