Flexcoat™ is a water-based, VOC-compliant, high-build, 100% acrylic emulsion, elastomeric decorative coating. Its waterproof formulation has a high degree of elasticity that will not become brittle after long-term exposure. It is available in smooth, fine, and medium texture.

**Yield**

**APPROXIMATE COVERAGE RATES**

<table>
<thead>
<tr>
<th>SUBSTRATE</th>
<th>FT/GAL (M/L) PER COAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Troweled stucco</td>
<td>70 – 90 (1.7 – 2.2)</td>
</tr>
<tr>
<td>Blown on stucco</td>
<td>60 – 70 (1.5 – 1.7)</td>
</tr>
<tr>
<td>Block</td>
<td>60 – 80 (1.5 – 2.0)</td>
</tr>
<tr>
<td>Brick</td>
<td>70 – 90 (1.7 – 2.2)</td>
</tr>
<tr>
<td>Concrete</td>
<td>75 – 100 (1.9 – 2.5)</td>
</tr>
</tbody>
</table>

*NOTE: COVERAGE RATES ARE THEORETICAL ON SMOOTH-SURFACED, PROPERLY PRIMED SUBSTRATES.

**Important:** WARRANTY APPLICATIONS REQUIRE A MINIMUM 10 MIL (0.25 MM) DRY FILM THICKNESS.

See page 3 for Wet and Dry Film Thickness Chart.

**Packaging**

5 gallon (18.93 L) pails

**Features**

- Available in smooth, fine and medium textures
- Over 300% ultimate elongation (smooth formulation)
- Internally plasticized
- Flexibility at low temperatures
- High-build coating
- Resists wind-driven rain
- Excellent color retention and UV resistance
- Breathable
- Resistant to salt spray, fungus, and mildew
- Available in 470 colors
- VOC compliant, water-based system

**Benefits**

- Design versatility
- Bridges dynamic cracks
- Will not become hard or brittle after years of exposure
- Suitable for a variety of climates
- Covers with one coat application on most substrates
- Helps prevent water penetration into the substrate
- Long term durability, resists color fading
- Allows interior moisture to escape thus preventing peeling and blistering
- Suitable for high-humidity climates
- Provides color coordination with Sonneborn® sealants
- Environmentally friendly; easy clean-up

**Color**

Available in four tint bases: pastel, medium, ultra-deep, and neutral. A total of 470 colors of the Sonneborn® Color Portfolio can be created from the 4 tint bases. See the Popular Palette for Wall Coatings for color formulas.

Refer to Sonneborn® Color Portfolio for the most popular 40 colors. For custom color formulations, consult BASF Color Labs through our Customer Service (1-800-433-9517).

**Where to Use**

**APPLICATION**

- New construction
- Maintenance
- Restoration

**LOCATION**

- Vertical
- Exterior
- Above grade

**SUBSTRATE**

- Stucco
- Brick
- Concrete
- CMU
- EIFS
- Previously painted surfaces

**Texture**

- Smooth
- Fine
- Medium

**Shelf Life**

18 months when properly stored

**Storage**

Store in unopened containers in a cool, dry area out of direct sunlight. Do not allow material to freeze in the container; do not store below 35° F (2° C).
Technical Data
Composition
Flexcoat™ is a high-build 100% acrylic emulsion coating.

Typical Properties

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>SMOOTH VALUE</th>
<th>TEXTURED VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight, lbs/gal (kg/L)</td>
<td>10.6 (1.3)</td>
<td>9.8 (1.18)</td>
</tr>
<tr>
<td>Solids content, % (Pastel Base)</td>
<td>52</td>
<td>53</td>
</tr>
<tr>
<td>By weight</td>
<td>52</td>
<td>53</td>
</tr>
<tr>
<td>By volume</td>
<td>41</td>
<td>45</td>
</tr>
<tr>
<td>Viscosity, KU</td>
<td>133 – 139</td>
<td>125</td>
</tr>
</tbody>
</table>

Test Data

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST RESULTS SMOOTH</th>
<th>TEXTURED*</th>
<th>TEST METHODS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elongation at break, %</td>
<td>&gt; 300**</td>
<td>25</td>
<td>ASTM D 412</td>
</tr>
<tr>
<td>Tensile strength, psi (MPa)</td>
<td>220 (1.52)</td>
<td>180 (1.24)</td>
<td>ASTM D 412</td>
</tr>
<tr>
<td>Cold temperature flexibility,</td>
<td>Passes</td>
<td>Passes</td>
<td>ASTM D 522</td>
</tr>
<tr>
<td>3/8&quot; (9.5 mm) mandrel at -10°F (-23°C)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wind-driven rain, (98 mph)</td>
<td>Passes</td>
<td>Passes</td>
<td>ASTM D 6904</td>
</tr>
<tr>
<td>Water vapor transmission, perms</td>
<td>Wet: 9</td>
<td>10.7</td>
<td>ASTM D 1653 / E 96</td>
</tr>
<tr>
<td></td>
<td>Dry: 1.34</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Artificial weathering,</td>
<td>Passes</td>
<td>Passes</td>
<td>ASTM G 155</td>
</tr>
<tr>
<td>No chalking, checking, or cracking, DE&lt;4.0</td>
<td>4,000 hrs</td>
<td>3,000 hrs</td>
<td></td>
</tr>
<tr>
<td>Fungus and mildew resistance</td>
<td>No growth</td>
<td>No growth</td>
<td>ASTM D 3273 / ASTM D 3273</td>
</tr>
<tr>
<td>Flame spread***</td>
<td>5</td>
<td>5</td>
<td>ASTM E 84</td>
</tr>
<tr>
<td>Smoke density,***</td>
<td>5</td>
<td>5</td>
<td>ASTM E 84</td>
</tr>
</tbody>
</table>

*Fine and Medium
** Modified test method
*** Scale of 0 - 200; 0 is best

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

How to Apply
Surface Preparation
1. Surface should be clean and sound. Concrete substrates should have a minimum 28 day cure and be free of all bond-inhibiting contaminants.
2. High-pressure water blast (or abrasive blast on hard, dense surfaces) surface to medium grit sandpaper texture (reference ICRI guide 03732 SP3.)
4. Some stains may require chemical removal. Be sure to neutralize the compounds and rinse with clean water.
5. Remove any blisters or delaminated areas and sand edges to smooth rough areas and provide transition to old paint areas.
6. Check adhesion of old paint using ASTM D 3359, measuring adhesion by Tape Method A.
7. Treat cracks greater than 1/32" (0.8 mm) with brand knife grade or brush grade Patching Compound. Treat cracks larger than 1/4" (6 mm) as expansion joints and fill with appropriate BASF Construction Chemicals sealant.

DETAIL WORK
1. Apply NP 1™ or Sonolastic® 150 (see Form No. 1017906) where appropriate on support columns and other details. Inspect all expansion joints. Ensure there is no deteriorated sealant, adhesion loss, or non-elastomeric caulking in joints. Repair all defective sealant or caulk with NP 1™ or Sonolastic® 150.
2. Apply and tool a liberal amount of Patching Compound or form a cant bead of NP 1™ or Sonolastic® 150 wherever there is change in direction where 2 walls abut and at column and wall intersections.
3. If movement is anticipated where dissimilar substrates join (e.g., stucco and concrete or brick and block), properly clean the joint and seal with NP 1™ or Sonolastic® 150 wherever there is change in direction where 2 walls abut and at column and wall intersections.
4. Inspect all through-wall penetrations, including electrical, lighting, signage, plumbing, HVAC, and fire-sprinkler piping, for a watertight seal. Repair with NP 1™ or Sonolastic® 150.
5. Inspect all flashings, including cap flashing and roof flashing for watertight seal. Repair with NP 1™ or Sonolastic® 150.
6. Recaulking of old windows is essential in the waterproofing and renovation of existing structures. Inspect perimeter joints and mullions and recaulk with NP 1™ or Sonolastic® 150 as required. Allow sealant to cure before proceeding.
7. All stucco and masonry window sills (primed, if required) should receive a coat of brush-grade Patching Compound. Create a smooth surface that drains away from the window.
8. Cracks smaller than hairline can be bridged with knife-grade or brush-grade patching compounds.
9. Chip or grind out nonmoving cracks larger than hairline. Remove dust and pack with knife-grade Patching Compound 748. Bridge crack with brush-grade Patching Compound 750. Brush a narrow band directly into the crack using brush, sponge, or other means to match substrate texture and reduce telegraphing of the patches through the finish coat. On textured substrates, texturized patching compound may be used to minimize the telegraphing.
10. Rout out dynamic or moving cracks to a minimum of 1/4" by 1/4" (6 by 6 mm), then fill with NP 1™ or Sonolastic® 150. Once sealant is tooled and cured, proceed with crack repair as described previously.

11. Repair cracks and treat back side of parapets in the same manner as exterior walls, terminating at roof counter flashings. If top of parapet wall is exposed masonry, apply a coat of Patching Compound to create a smooth, well-draining surface. Recaulking of reglet may be required.

12. Block and other porous surfaces should be clean, dry, and free of contaminants. Fill concrete block faces with 1 nylon brush coat of Block Filler 749. Apply by working material into pores, crevices, and voids. Allow Block Filler to dry, typically 24 – 48 hours, before proceeding. Coverage rate depends on the porosity and texture of the block surface. Apply to dry, cured block and mortar only. See product data sheet for complete application instructions.

**Primming**

**CHALKY SURFACES ONLY**

1. Primer is used only to stabilize existing substrates or coatings that are chalking or friable (powdery) after power washing. The user must ensure that surface or old paint can be bound by the primer for proper adhesion of Flexcoat™. A test application is required. Existing surfaces and coatings totally free of chalk do not require priming.

2. Apply Chalky Surface Primer VOC at 200 – 400 ft/gal (5 – 10 m²/L). Refer to product data sheet for further application instructions.

3. Extremely porous substrates may require Block Filler following application of primer.

4. Apply Flexcoat™ after primer and block filler have sufficiently dried.

5. Special substrates, such as insulated wall systems, may require a different primer system. Consult Technical Services for specific recommendations.

**Application**

1. A 1 coat application on textured, raked, or aggregate finish is normally sufficient.

2. For best appearance, apply 2 thin coats as opposed to 1 heavy coat.

3. Apply finish coat in a pinhole-free continuous membrane for waterproofing integrity.

**ROLLER**

1. Depending on the substrate texture, use a quality 3/4" (19 mm) to 1-1/4" (32 mm) nap roller cover (lamb’s wool preferred).

2. Completely saturate the roller and keep it loaded with the coating to build the required mils. Never dry roll except for touch up.

3. Roll the coating in a consistent fanlike pattern to achieve uniform mil thickness. Gently back roll all material down in one direction, as stroke direction variations may result in uneven color and texture, or lap marks.

4. Flexcoat™ is formulated to allow proper working time to help avoid lap marks and has the viscosity to build the required mils in 1 coat when applied properly.

**BRUSH**

1. Application by brush is recommended only for small inaccessible areas, e.g., on touch-ups.

2. Use a nylon brush only.

For Flexcoat™ Fine and Medium textures, a general guideline, use a rotator/stator, or a diaphragm pump, or an air assisted airless capable of providing up to 50 psi (0.35 MPa) at the gun. Utilize spray disc size as indicated below:

- Fine texture: 3/16 "
- Medium texture: from 3/16" to 1/4"

3. A 10% spray loss should be anticipated.

4. On porous substrates, pinholing is an indication of entrapped air. Backrolling is required to eliminate pinholes.

**Clean Up**

Clean all tools and equipment with warm soapy water.

**For Best Performance**

- Apply a 4 by 4" (1.2 by 1.2 m) test area to verify acceptable color and adhesion before proceeding with any project.

- Keep from freezing.

- Do not apply when surface or ambient temperatures are less than 40° F (4° C) or are expected to go below 40° F (4° C) for 12 hours following application.

- Do not apply coatings in rain, snow, or fog.

- Do not thin Flexcoat™.

- Hot or dry conditions limit working time and accelerate drying; cool or damp conditions extend working time and retard drying and may require added measures for protection against wind, dust, dirt, rain, and freezing.

- Minimum dry time between coats is 12 hours at 75° F (24° C) and 50% or less relative humidity.

- Color formulas containing organic colorants are susceptible to fading in exterior applications.
Ultra-deep and neutral-base colors are mainly intended for use as accents in small areas only; they are not guaranteed against fading.

Slower drying time should be expected when using ultra-deep or neutral base colors.

Do not apply to traffic-bearing or flat surfaces.

Overaggressive backrolling can be detrimental thus creating pinholes.

Iron-rich slag aggregate containing block, mortar, or brick may cause discoloration through Flexcoat™. Consult Technical Service for recommendations.

Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.

Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Risks

May cause skin, eye or respiratory irritation. Ingestion may cause irritation. Repeated exposure to ethylene glycol may cause kidney damage.

Health and Safety

Caution

Flexcoat™ contains ethylene glycol, silica, crystalline quartz, and zinc oxide.

Proposition 65

This product contains material listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

VOC Content

0.77 lbs/gal or 93 g/L, less water and exempt solvents.

For medical emergencies only, call ChemTrec (1-800-424-9300).

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, SEEK IMMEDIATE MEDICAL ATTENTION. If swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

For professional use only. Not for sale to or use by the general public.