



# APPLICATION SPECIFICATIONS FOR THE ASHFORD FORMULA™

## I. INSTRUCTIONS FOR FRESHLY FINISHED CONCRETE

### A. Surface Preparation

Freshly finished concrete surfaces require no surface preparation if the Ashford Formula™ is to be applied as a curing agent immediately after the finishing operation. On areas where forms are recently removed, all form oil and breaking compound residue must be removed so as not to inhibit the penetration of the Ashford Formula™ into the surface. The Ashford Formula™ can be applied in temperatures from 35°F/1.7°C to 135°F/57°C.

### B. Application Instructions

#### Step 1

Immediately following the troweling operation, and as soon as the slab is safe to walk on, saturate the surface with the Ashford Formula™ at approximately 200 square feet per gallon (5m<sup>2</sup>per liter) using a low pressure, high volume sprayer. The Ashford Formula™ may also be applied by pouring it directly on the surface and spreading it evenly with a soft-bristled broom. **Note: The Ashford Formula™ is a penetrant, not a membrane. Enough material must be on the surface to allow the Ashford Formula™ to thoroughly soak in. As a guideline, there should be enough Ashford Formula™ on the floor to fill-in a footprint within several seconds of taking a step. This is often referred to as a flood coat or wet coat.** Once a wet coat has been achieved, work the Ashford Formula™ into the concrete surface with soft-bristled brooms. This step breaks surface tension and aids penetration.

Keep the surface wet with the Ashford Formula™ for a minimum of 30 minutes, and then wait for the Ashford Formula™ to become slippery and gel-like under foot. In extremely cool, windless conditions, the Ashford Formula™ can take up to 1-hour or longer to become slippery. In extremely hot conditions the Ashford Formula™ may begin to become slippery before the full 30-minute soak-in period. Additional Ashford Formula™ must be applied to the concrete in order to keep all areas of the concrete surface wet with the Ashford Formula™ for at least 15 to 20 minutes before becoming slippery in these hot conditions. **Note: No spot or area on the slab should be allowed to become dry during the soak in period. It is best to avoid dry areas by either brooming excess Ashford Formula™ over the more absorbent spots, or by putting down more Ashford Formula™. Pay particular attention to porous areas and slab edges, as these tend to dry out more quickly.**

#### Step 2

Immediately after the Ashford Formula™ becomes slippery, lightly mist the surface with water. This can be done either with a low-pressure sprayer or with a hose and nozzle (nozzle should be adjusted to create a mist). This step will resolubilize the Ashford Formula™ so that it is no longer slippery or gel-like. Agitate the floor with a broom to aid the penetration of the Ashford Formula™. Wait for the Ashford Formula™ to become slippery or gel-like a second time.

#### Step 3

At this point, thoroughly flush the surface with water. During the flushing process, the floor should be agitated with brooms to help loosen and remove excess Ashford Formula™ from the surface.

#### Step 4

Thoroughly squeegee the slab dry by pushing the water ahead of you off the slab edge. At this point, the floor should look like bare concrete with nothing on it. **Note: During the squeegee process, there may be some slippery patches. This is an indication that excess the Ashford Formula™ is still on the surface. These areas should be re-flushed and squeegeed again until the entire surface is dry.**

#### ADDITIONAL NOTES

- Please consult with your local technical representative for questions regarding application in extreme or unusual weather conditions - hot, cold, windy, or otherwise.
- Saw cutting may be done before or after the Ashford Formula™ is applied, depending on the immediate need for curing. It is critical in either case that the dust or slurry from cutting be immediately and thoroughly removed from the slab.
- Abnormally porous or soft concrete floors may require additional applications of the Ashford Formula™. This also applies to surfaces with open finishes, such as broom finished or scarified floors.
- Burnishing the surface with a 2000-RPM propane burnisher will help develop the sheen more quickly. For complete instructions contact the manufacturer.

## II. INSTRUCTIONS FOR EXISTING CONCRETE

### A. Surface Preparation

The concrete surface must be free of any material that would inhibit the penetration of the Ashford Formula™. This would include any curing or sealing compound, paints or coatings, construction laitance, and any surface dust or dirt. In some instances, the floor may need to be stripped, in which case it may also need to be neutralized. **Note: All surfaces that will be painted, striped, or have a coating or adhesive applied should use Step 2 (Option 2) as described on the next page. For additional information, call 800-998-5664 for the name of your qualified Ashford Formula™ technical representative.**

**Step 1**

Saturate the surface with Ashford Formula™ so that the entire surface is wet with Ashford Formula™ for 30 minutes.

**Step 2 (Option 1)**

If after 30-40 minutes the majority of the Ashford Formula™ has been absorbed into the surface, broom or squeegee any excess Ashford Formula™ (while still in its liquid form) from all low spots and puddles so that all remaining Ashford Formula™ is entirely absorbed into the concrete or totally removed from the surface.

**Step 2 (Option 2)**

If after 30-40 minutes the majority of the Ashford Formula™ is still on the surface, wait until it becomes slippery underfoot, then thoroughly flush the entire surface with clear water and squeegee completely dry to remove all Ashford Formula™ residue. If prior to 30 minutes the Ashford Formula™ becomes slippery, follow the Instructions for *Freshly Finished Concrete*.

### III. INSTRUCTIONS FOR EXTERIOR CONCRETE

**Step 1**

Saturate the surface with the Ashford Formula™ using a low pressure, high volume sprayer. Keep the entire surface glistening wet with Ashford Formula™ for 30 minutes.

**Step 2**

After the 30-minute application period, use a broom or mop to remove any puddles or concentrations of Ashford Formula™ from the slab.

**TIP: A wide, fine bristle push broom works well to disperse the Ashford Formula™ on textured surfaces.**

### IV. INSTRUCTIONS FOR TILT-WALL APPLICATION

#### A. TILT-WALL APPLICATION WHEN THE ASHFORD FORMULA™ IS USED TO CURE THE CASTING BED

When the Ashford Formula™ is used to cure the casting bed, follow the instructions for *Freshly Finished Concrete*. It is essential that particular care be given to the following guidelines:

- Ensure that all residue of the Ashford Formula™ has been removed from the surface of the casting bed during the flush and squeegee procedure. If certain areas are still slick during the squeegee operation, it is necessary to re-flush and re-squeegee the surface until the entire slab is free of any Ashford Formula™ residue. The concrete should appear as though there is nothing on it.
- Follow the bond-breaker manufacturer's application instructions. Also, follow the manufacturer's prescribed testing procedures for ensuring that enough bond-breaker has been applied for a sufficient period of time.

#### B. TILT-WALL APPLICATION WHEN ASHFORD IS NOT USED TO CURE THE CASTING BED.

It is critical that any substance used previously to cure the slab be completely stripped and/or removed from the surface of the concrete prior to the application of the Ashford Formula™. Bond breakers and/or curing agents (if left on the floor surface) will inhibit the penetration of the Ashford Formula™ and cause whitening. These substances are designed to dissipate from the floor surface, but may not do so completely. The Ashford Formula™ must be applied on clean, bare concrete. Qualified floor technicians must perform the floor preparation.

For guidelines on proper floor preparation, please contact a qualified Ashford Formula™ technical representative. To find a representative in your area, please call 800-998-5664.

### V. VERTICAL SURFACE APPLICATION

**Step 1**

Apply the Ashford Formula™ to the surface of the wall with a low-pressure sprayer or roller, starting at the top and working your way along the wall. Apply sufficient material to thoroughly wet the surface without allowing excessive amounts to run down the wall.

**Step 2**

As you work your way along the wall, if any previously sprayed areas appear to be fully absorbing the Ashford Formula™, re-spray those areas so that the entire wall is kept damp with the Ashford Formula™ for 30 minutes.

**Step 3**

Allow the treated surface to dry. If the treated surface is to be coated or painted or the natural appearance is to be preserved, thoroughly flush the vertical surface with water 10 minutes after the initial 30-minute application period.

### VI. GENERAL GUIDELINES FOR ALL ASHFORD FORMULA™ APPLICATIONS

- Apply with low-pressure sprayer only. Do not use airless sprayers, as they atomize the material, allowing inhalation.
- May cause eye and mucous membrane damage. Avoid contact with eyes and mucous membranes. If contact occurs, flush with water for 15 minutes.
- If taken internally, do not induce vomiting. Drink large amounts of milk or water. CONSULT A PHYSICIAN IMMEDIATELY.
- Surfaces treated with the Ashford Formula™ temporarily become slippery during application. Exercise care and caution to avoid falls.
- Avoid contact with glass, aluminum, or other glazed or finished surfaces. Where contact occurs, immediately wipe with a damp cloth or flush with water. When applying near windows, mask the glass.
- Protect from freezing. If frozen, thaw and agitate before using. Do not use on cinder block or other highly porous material, which contains holes or air pockets.
- When used near blacktop, the Ashford Formula™ must be flushed away with water to eliminate any white discoloration that may appear when the surface is dry.