Description
Grace Construction Products Surface Retarders offer unmatched reliability and control for exposed aggregate finishes. The beauty and durability of this high quality finish can be seen in landmarks worldwide: the grounds of the U.S. Capitol; Yamous-soukro Basilica, Africa; and the new European Parliament to name a few.

Grace Produits de Construction S.A.S., a French division of W. R. Grace & Co.–Conn., brings thirty years experience in the surface retarder market, creating a range of products with an unprecedented level of control for depth-of-etch. This allows a uniquely controllable selection of surface finishes to add beauty to architectural concrete.

With over 60 years of expertise in the field of cement and concrete technology, Grace Construction Products has been serving the needs of the international construction industry with products that improve strength and durability. The Grace combination of innovative products, sophisticated research and development, technical service and support at the job site deliver added value that is unmatched in the industry.

Product Uses
Grace Surface Retarders provide a comprehensive range of effect, from a light sand finish up to full exposure of 1 1⁄4 in. (32 mm) aggregate. The products are designed for use on cast-in-place walls, residential driveways, pool decks, golf course cart paths, sidewalks or large plaza decks and precast concrete. Review the Surface Retarder Guide below to determine the product which best matches your job requirements.

Product Advantages
• Comprehensive range of etch depth
• Excellent depth-of-etch control
• Improves flexibility of when you can wash
• Products available both for in-form and surface applications
• VOC compliant
• Easy application
• Excellent coverage rates
• Short drying times
**Product Function**

Each product creates a unique degree of reaction to produce the effect on the surface mortar. The retarding chemicals diffuse into the paste, due to the normal porosity of cement in the first hours of curing, and slow down the cement hydration reaction.

During the next 16–72 hours of curing, the bulk concrete hardens except where the matrix cement has been retarded. The retarded surface cement is then removed by water or sandblasting, revealing the aggregate in the concrete mix.

**Surface Retarder Guide**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Type of Base</th>
<th>Product Characteristics</th>
<th>Resistance to Abrasion (concrete placing time)</th>
<th>Heat Resist.</th>
<th>Application Methods</th>
<th>Approximate Coverage and Drying Time</th>
<th>Release Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Top Surface Retarders</strong></td>
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<tr>
<td>Grace®</td>
<td>Water</td>
<td>A film-forming top surface retarder which prevents accelerated evaporation. Saves time by eliminating the need for covering the surface. Designed for large paving and hollow core applications.</td>
<td>NA</td>
<td>Up to 140°F (60°C)</td>
<td>Low pressure, garden-type sprayer</td>
<td>250–350 ft²/gal (6.1–8.6 m²/L)</td>
<td>NA</td>
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<tr>
<td><strong>In-Form Retarders</strong></td>
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<tr>
<td>Pieri®</td>
<td>Solvent*</td>
<td>An in-form retarder, unique in not requiring an undercoating release. The depth-of-etch is highly uniform. The retarded matrix is designed not to transfer to the concrete and is easily brushed from the form.</td>
<td>Good 30–40 minutes</td>
<td>Up to 180°F (82°C)</td>
<td>Brush or roller: 2 light coats Spray: 1 full-bodied coat</td>
<td>400 ft²/gal (9.8 m²/L) 10 minutes</td>
<td>NA</td>
</tr>
<tr>
<td>Pieri®</td>
<td>Solvent*</td>
<td>An in-form retarder, unmatched for abrasion resistance. Recommended for vertical surfaces up to 10 ft, for spun poles and for multi-batch panels, where extended placing times are required.</td>
<td>Excellent 45–60 minutes</td>
<td>Up to 150°F (65°C)</td>
<td>Brush or roller: 2 light coats Spray: 1 full-bodied coat</td>
<td>250–300 ft²/gal (6.1–7.4 m²/L) 10 minutes</td>
<td>VMR</td>
</tr>
<tr>
<td>Pieri®</td>
<td>Alcohol</td>
<td>An undercoat for use with DURO-TARD. Ensures transfer of retarder to the cast concrete. Dries fast. Reduces or eliminates form clean-up.</td>
<td>NA</td>
<td>NA</td>
<td>Brush or roller</td>
<td>450 ft²/gal (11 m²/L) 20 minutes</td>
<td>NA</td>
</tr>
</tbody>
</table>

*Complies with U.S. E.P.A. Volatile Organic Compound Emission Standards for Architectural Coatings

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**www.graceconstruction.com**


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