Silane/Siloxane Blend

Dur-A-Pell 20 is a clear, filmless, penetrating water repellent for virtually all above-grade, vertical and horizontal concrete, stucco, block and brick masonry and natural stone. Concrete, stone and masonry treated with Dur A Pell 20 resist water and chloride ion intrusion, stain damage, freeze/thaw spalling, efflorescence and rust damage. The treatment does not alter the color or texture of the surface, nor significantly affect the vapor transmission qualities of the substrate. The solution penetrates the substrate and chemically reacts to create a powerful barrier against water penetration. This barrier is resistant to ultraviolet and weather deterioration.

Colors
Clear. Dur A Pell 20 is milky-white when applied but dries clear, leaving the aesthetic appearance of the substrate unchanged.

Performance Criteria
Contact your Tnemec representative for specific test results.

Limitations
Dur A Pell 20 is not formulated for use on below-grade surfaces. It is not intended to seal visible cracks or as a substitute for repointing defective mortar joints. A water repellent may not be able to completely resist wind-driven rain on all substrates, two or more applications, applied wet-on-wet, may be required for adequate performance. The substrate should not be acid washed after application. Dur A Pell 20 may have limited efficacy on calcareous masonry such as limestones, marbles and travertines. This product is not appropriate for application to polished stone. Dur A Pell 20 must penetrate into and react with the substrate for effective repellency, therefore, it is not suitable for painted surfaces.

Topcoats
If color is desired, apply Series 617 Conformal Stain WB within 12 to 36 hours after application of Series 636. Application of Series 617 outside of this time frame may compromise water-repellency and/or adhesion properties.

Surface Preparation
The surface to be treated must be sound, dry and free of cracks, dirt, oils, efflorescence, paint, curing compounds and all other contaminants, which may affect the penetration of Dur A Pell 20. Fill all cracks, voids and repoint mortar joints if necessary. New concrete and mortar must be allowed to cure a minimum of twenty-eight (28) days before treatment. Protect plants, shrubs and glass from overspray. Should incidental contact occur with surfaces not intended for treatment, remove overspray immediately with mild soap and water. Do not allow soap solution to contact the surfaces being treated.

Technical Data

Curing Time
Protect treated surfaces from pedestrian and vehicular traffic for at least 8 hours, from rain and lawn sprinklers for 6 to 8 hours. (Time to resist moisture is increased at lower temperatures.) Allow 7 to 14 days before evaluating performance.

Volatile Organic Compounds
2.0 lbs/gallon (245 grams/litre)

Active Ingredient
Oligomeric Alkylalkoxy Silane/Alkylalkoxy Siloxane

Active Content
20%

Packaging
1 gallon (3.79 L) cans, 5 gallon (18.96 L) pails, 55 gallon (208.2 L) drums

Net Weight Per Gallon
8.26 ± 0.10 lb/gal (990 g/L)

Storage Temperature
Minimum 35°F (2°C) Maximum 100°F (38°C)

Keep this product from freezing.

Shelf Life
12 months at recommended storage temperature.

Flash Point - SetA
>212°F (100°C)

Paint and related products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.
**APPLICATION**

**COVERAGE RATES**

Coverage rates are guidelines and will vary depending upon the texture of the surface and porosity of the substrate.

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Sq. Ft./Gal.</th>
<th>m²/litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>125 - 250</td>
<td>3.1 - 6.1</td>
</tr>
<tr>
<td>CMU (porous)</td>
<td>50 - 75</td>
<td>1.2 - 1.8</td>
</tr>
<tr>
<td>CMU (normal)</td>
<td>75 - 125</td>
<td>1.8 - 3.1</td>
</tr>
<tr>
<td>Concrete Pavers</td>
<td>125 - 250</td>
<td>3.1 - 6.1</td>
</tr>
<tr>
<td>Fired Clay Brick (porous)</td>
<td>100 - 150</td>
<td>2.5 - 3.7</td>
</tr>
<tr>
<td>Fired Clay Pavers</td>
<td>150 - 300</td>
<td>3.7 - 7.4</td>
</tr>
<tr>
<td>Slate</td>
<td>250 - 400</td>
<td>6.1 - 9.8</td>
</tr>
<tr>
<td>Sandstone</td>
<td>65 - 150</td>
<td>1.6 - 3.7</td>
</tr>
</tbody>
</table>

A test application must be performed to determine the exact coverage rate, desired performance and compatibility of Dur A Pell 20 and the substrate before beginning a job.

**MIXING**

Mix well prior to application.

**THINNING**

Do not dilute or thin. Dur A Pell 20 must be used as supplied by the manufacturer.

**APPLICATION EQUIPMENT**

Apply using a low-pressure rotary or gear pump sprayer with a fan tip (0.03-0.06 orifice) that allows for application of the product at 20-30 psi. A commercial grade pump-up spray tank equipped with a fan tip is also acceptable. Airless paint sprayers are not acceptable for the application of water repellents. Do not atomize the product.

On vertical installations, apply with a wet-on-wet technique. Apply a saturating application of the product working from the bottom up. On porous substrates such as concrete masonry units, allow a slight rundown (less than three inches). On all substrates allow the product to penetrate the substrate for approximately 5 to 7 minutes, then apply again in the same manner. This second pass will require less material. Follow coverage rate guidelines, however, a test application should always be performed.

On horizontal installations, apply in a single, saturation application. Apply enough material for the surface to remain wet for 2 to 3 minutes before absorbing into the substrate. Do not allow puddles to remain on surface; any areas of ponding should be dispersed with a broom.

**SURFACE TEMPERATURE**

Minimum 45°F (7°C)    Maximum 90°F (32°C)

**MAINTENANCE**

None required. Reapply after Dur A Pell 20 no longer repels water or offers desired protection. Life expectancy is dependent upon substrate condition and quality of application.

**CLEANUP**

Clean equipment after use with water and mild detergent.

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