



DUR A PELL 100 SERIES 665

PRODUCT PROFILE

GENERIC DESCRIPTION

Silane

COMMON USAGE

Dur A Pell 100 is a clear, filmless, penetrating water repellent for virtually all above-grade, vertical and horizontal concrete, stucco, natural stone, block and brick masonry. Concrete, stone and masonry treated with Dur A Pell 100 resist water 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

Dur A Pell 100 is a clear liquid 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 100 is not formulated for use on asphaltic decks or 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 100 may have limited efficacy on calcareous masonry such as limestones, marbles and travertines. Dur A Pell 100 must penetrate into and react with the substrate for effective repellency, therefore, it is not suitable for many painted surfaces.

COATING SYSTEM

TOPCOATS

If color is desired, apply Series 607 Conformal Stain.

SURFACE PREPARATION

ALL SURFACES

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 100. 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.

Shield glass, wood and other surfaces that are not intended to be treated from overspray. Any overspray should be removed immediately with paint thinner or mineral spirits. Also protect asphaltic and painted surfaces, trees, shrubs and other landscaping from overspray.

TECHNICAL DATA

CURING TIME

Dur A Pell 100's volatility increases with temperature, therefore more material will evaporate from the treated surface prior to curing when temperatures exceed 80°F (27°C). 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 days before evaluating performance.

VOLATILE ORGANIC COMPOUNDS

2.9 lbs/gallon (344 grams/litre)

ACTIVE INGREDIENT

Alkylalkoxy Silane

ACTIVE CONTENT

>95%

PACKAGING

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

NET WEIGHT PER GALLON

7.65 ± 0.10 lb/gal (916 g/L)

STORAGE TEMPERATURE

Minimum 35°F (2°C) Maximum 90°F (32°C)

SHELF LIFE

24 months at recommended storage temperature.

FLASH POINT - SETA

95°F (35°C)

HEALTH & SAFETY

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 use of this product.

Use only in well-ventilated or open areas. Special precautions should be taken to avoid vapor transmission (fumes) from entering the building being treated. Ventilation systems and fresh air intakes should be turned off and closed. All direct routes of vapor ingress such as windows and doors must be secure. Notify occupants of the building prior to application, as vapors may be irritating.

Keep out of the reach of children.

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APPLICATION

COVERAGE RATES

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

Substrate	Sq. Ft./Gal.	m ² /litre
CMU (porous)	50 - 75	1.2 - 1.8
CMU (normal)	100 - 125	2.5 - 3.1
Precast	100 - 200	2.5 - 4.9
Concrete	125 - 200	3.1 - 4.9
Concrete Pavers	100 - 200	2.5 - 4.9
Fired Clay Brick (porous)	100 - 150	2.5 - 3.7
Fired Clay Brick (dense)	150 - 200	3.7 - 4.9
Fired Clay Pavers	125 - 250	3.1 - 6.1
Granite (unpolished)	150 - 250	3.7 - 6.1
Granite (polished)	300 - 400	7.4 - 9.8
Slate	200 - 300	2.5 - 7.4

A test application **must** be performed to determine the exact coverage rate, desired performance and compatibility of Dur A Pell 100 and the substrate before beginning a job.

MIXING

Mix well prior to application.

THINNING

Do not dilute or thin. Dur A Pell 100 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 high density materials such as precast concrete panels or GFRC, do not allow any rundown. 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)

Note: Dur A Pell 100's volatility increases with temperature, therefore more material will evaporate from the treated surface prior to curing when temperatures exceed 80°F (27°C).

MAINTENANCE

None required. Reapply after Dur A Pell 100 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 paint thinner or mineral spirits.

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