CHEMPROBE
COATING SYSTEMS, L.P.

Dur A Pell GS

Water Repellent and Graffiti Protectant

It protects against graffiti. And preserves integrity.

Whether clean and simple or dramatic and bold, your building is a work of art. Unfortunately, the graffiti that plagues it time and time again is not. According to national reports, Americans spend billions of dollars each year removing graffiti and repairing damages. And the cost continues to rise. That's why Chemprobe offers Series 626 Dur A Pell GS, a clear anti-graffiti coating that can be applied to a variety of masonry substrates. Series 626 Dur A Pell GS makes graffiti removal easy with the use of Series 680 Mark A Way citrus cleaner, and since it's non-sacrificial, it won't come off during the removal process. Which means it will withstand multiple graffiti taggings, keeping your building looking its best—and frustrating vandals everywhere.

Series 626 Dur A Pell GS can be applied solely to areas that are subject to graffiti taggings or to your entire facility for protection against not only graffiti but Mother Nature also. This protective coating acts as a water repellent, protecting concrete, masonry and stucco from wind-driven rain and moisture infiltration. Series 626 Dur A Pell GS can be applied to tilt-up, split and smooth faced block, brick and other masonry substrates including various types of stone such as limestone and granite. For more information, please contact your Chemprobe/Tnemec technical representative.

TYPES OF STRUCTURES OFTEN VANDALIZED:

- Commercial buildings
- Public buildings
- Bridges
- Sound walls
- Highway/Interstate roadside structures
- Water tanks
- Industrial complexes

SERIES 626 DUR A PELL GS WITHSTANDS:

- Acrylic latex paints
- Enamel spray paints
- Markers

Chemprobe Coating Systems, L.P.
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Series 626 Dur A Pell GS spray-applied to exterior brick.

Building tagged with graffiti.

Graffiti removed with Series 680 Mark A Way and simple brush.

Building washed clean with water.

This two-story brick building was protected with Series 626 Dur A Pell GS. And although once tagged with graffiti, it still looks new and unstained.

Graffiti removal made simple.

Graffiti applied with spray paint or markers is easily removed from surfaces treated with Series 626 Dur A Pell GS using Series 680 Mark A Way citrus cleaner. Specially developed to breakdown graffiti materials without harming Series 626 Dur A Pell GS, this powerful cleaner has a pleasant citrus odor and works quickly. Simply spray Series 680 Mark A Way on the graffiti and allow to set for 5 to 8 minutes, keeping it constantly wet. Scrub the treated area using a nylon bristled brush, making sure to reach all indentions and crevices. Then remove with clean water.

Chemprobe Coating Systems, L.P. is a subsidiary of Tnemec Company Incorporated.
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Frequently Asked Questions

FREQUENTLY ASKED QUESTIONS

Series 626 Dur A Pell GS and Series 680 Mark A Way
RTV Silicone Anti-Graffiti/Water Repellent

Q. What does RTV silicone mean?
A. RTV is an acronym for "Room Temperature Vulcanizing". RTV silicone products typically consist of long chain, high molecular weight compounds which vulcanize, or cure, at ambient or "room" temperature. RTV silicone rubber is dissolved in a solvent carrier that transports the silicone solids into the substrate's capillary system. During evaporation of the solvent, the silicone solids absorb relative humidity, which acts as a catalyst to the curing mechanism. The solids vulcanize to a synthetic silicone rubber in the capillary system of the substrate.

Q. How is Series 626 Dur A Pell GS applied?
A. Apply using a low-pressure hand pump, rotary or gear pump sprayer with a fan tip that allows for an application pressure of 20-40 psi. Apply first coat in a saturating spray application from bottom up. Apply sufficient material to create a 4" to 6" rundown below the contact point. On porous substrates or where run marks become visible, apply a mist coat from the bottom up to break surface tension, followed by a full saturation coat. On dense substrates, avoid over-application by back-rolling all areas that appear to be fully saturated. A second coat is required for graffiti protection; apply as soon as first coat appears to begin drying (30 minutes – 2 hours) depending on temperatures and substrate. All coats should be examined for areas of over-application and such areas should be brushed or backrolled to avoid excessive film build. For roller application, use a 1/2" synthetic nap cover. Brush application is recommended for small areas only. Use nylon or other synthetic material bristle brushes resistant to solvent solutions.

Q. After application, how long before substrate is protected?
A. Initial water intrusion protection varies anywhere from six to twelve hours, depending on temperature and humidity. The higher the temperature and relative humidity, the faster the cure time. Water repellency occurs within that period and graffiti protection will take approximately five days.

Q. Is this product VOC compliant?
A. The standard formula meets the requirements of the national AIM regulations with the payment of an exceedance fee. The payment of this fee allows for the legitimate offering of this product with a VOC greater than 600/grams per liter. This material can be sold in all areas of the country that do not have more stringent state restrictions. New York, New Jersey, Massachusetts, and California are some of the states that have such regulations. Please check the local regulations in your area. Where VOC regulations require compliance of less than 600 g/L VOC, we will offer a lower VOC alternative in the very near future.

Q. Does this product alter the look of the substrate?
A. Dur A Pell GS may darken or enhance the natural appearance of the substrate after cure. No alteration of surface texture is seen.

FREQUENTLY ASKED QUESTIONS (cont.)

Series 626 Dur A Pell GS and Series 680 Mark A Way
RTV Silicone Anti-Graffiti/Water Repellent

Q. Can you remove Series 626 Dur A Pell GS from a substrate?
A. Longevity is a positive aspect of this product. The only way found to disrupt the silicone rubber matrix and remove it from a cementitious substrate is with products such as potassium hydroxide solution with a pH value of 13-14. However, this is a very caustic solution. Due to the difficulty in removing cured silicone rubber once deposited in the capillary system of a substrate, silicone rubber repellents should be viewed as permanent.

Q. How can I tell if this product is performing?
A. Water-repellency can be assessed with RILEM tube testing. Assessment of graffiti protection would require a small trial be performed in an inconspicuous area following appropriate treatment and curing times. Removal should be performed with Series 680 Mark A Way following appropriate instructions.

Q. What happens if "tagging" is done before the five days?
A. Protection may be compromised, however attempting removal of the graffiti with Series 680 Mark A Way as soon as practical will assist in removal efficacy.

Q. Does Series 626, or other RTV silicone products in general, provide a chemical bond with the substrate?
A. Series 626 may chemically bond with silica containing substrates such as concrete, brick and sandstone. On surfaces which do not contain silica, such as limestone, a chemical bond with the substrate will not occur. However, graffiti protection may be attained as a chemical bond is not required for graffiti protection.

Q. What are the differences in technologies with silicones vs. RTV silicones?
A. "Silicones" may mean many things to many people. Historically, "silicones" used for the treatment of concrete and masonry began as silicone oils which were very slow to cure, remaining attractive to dirt and insects for long periods of time. All silicone products in Chemprobe's line, including Series 626, are chemically reactive, crosslinking chemistries, that cure relatively quickly, eliminating dirt pick-up problems.

Q. When writing specifications, what CSI section would I use?
A. When specifying Dur A Pell GS as a graffiti protection system it should be specified in Section 09960 under the current edition of MasterFormat and in Section 09 96 23 under revised MasterFormat 2004. If Dur A Pell GS were to be used as a water repellent Division 7 would technically be the most appropriate - 07190 under current MasterFormat or 07 19 19 under MasterFormat 2004. As with any protective system offered in the Chemprobe line, you may find it more advantageous to specify these systems under 09960 High Performance Coatings.

FREQUENTLY ASKED QUESTIONS (cont.)

Series 626 Dur A Pell GS and Series 680 Mark A Way
RTV Silicone Anti-Graffiti/Water Repellent

Q. How do I remove graffiti?
A. For best results, remove graffiti as soon as possible after the surface has been defaced. Series 680 Mark A Way cleaner has been developed specifically for use with surfaces protected with Dur A Pell GS. Apply by brush, roller or low pressure sprayer directly to the "tagged" surface and allow it to dwell for 5-8 minutes, while keeping substrate wet with cleaner. Agitate with a nylon brush and rinse thoroughly with water. A power washer (not to exceed 1000 psi) may be required to remove graffiti. After the surface has been cleaned and allowed to dry completely, Dur A Pell will continue to protect against graffiti penetration and permit additional cleaning cycles if necessary. In areas that receive multiple "taggings", and if graffiti removal becomes difficult, a reapplication of Dur A Pell GS may be required.

Q. If removal becomes too difficult, how can graffiti be removed?
A. If removal becomes difficult after repeated taggings or if graffiti markings are not completely removed by Mark A Way (Series 680), a more stringent cleaner may be required. There are a number of commercially available cleaners and/or strippers that can be used to dissolve deep-seated graffiti. Any cleaner should be applied following the manufacture's instructions and completely removed prior to the re-application of Dur A Pell GS.

Q. Can other cleaners be used to remove graffiti?
A. The use of other cleaners is not recommended. Mark A Way (Series 680) has been designed and tested to remove graffiti markings without damaging the protective coating. Other cleaners may not only remove the graffiti but also the Dur A Pell GS. If a non-approved cleaner is used, a reapplication of the Dur A Pell GS should be applied to the affected area.

Q. Can Dur A Pell GS be used on horizontal surfaces?
A. Series 626 is not recommended on horizontal surfaces. Chemprobe has other products better suited for these areas.

Q. How can Dur A Pell GS be removed from windows in case of accidental overspray?
A. It is required to shield glass, wood and other surfaces that are not intended to be treated from overspray. Any overspray should be removed immediately with mineral spirits. Also, protect asphaltic and painted surfaces, grass, trees, shrubs and other landscaping from overspray.

Q. What kind of warranty is available?
A. A standard five year water repellent warranty is available. Please refer to Chemprobe warranty department for application and details.

Q. Why is a graffiti warranty not offered?
A. Standard practice for both the industry and Chemprobe is to not offer a warranty against graffiti damage. With all of the variables involved in graffiti protection, i.e. substrate density and texture, application rate and method, along with all the various types of markings, absolute guarantees are quite difficult. If, however, job specifications dictate a requirement for a graffiti warranty and all the conditions are favorable, i.e. jobsite testing confirms desired performance, substrate compatibility and pre- approval from Chemprobe, a graffiti warranty may be attainable.

TECHNICAL REFERENCE

FEATURES, ADVANTAGES & BENEFITS

Series 626 Dur A Pell GS and Series 680 Mark A Way
RTV Silicone Anti-Graffiti/Water Repellent

Feature	Advantage	Benefit
RTV Silicone rubber sealant provides transparent protection from graffiti	Long-lasting barrier to prevent paint penetration and adherence	Easy removal of graffiti when Mark A Way cleaner is used
RTV Silicone rubber sealant provides invisible protection from water intrusion	Extended weatherproofing protection	Minimizes effects of weathering damage
Quick Drying	Dry to touch and offers initial water repellent protection in as little as 6 - 12 hours	Quick return to service for treated substrate
Transparent	Dries to clear (could slightly enhance or darken some substrates)	Won't appreciably alter its natural appearance or texture of substrate
Durable	Non-sacrificial	Is inorganic in its cured state, therefore highly resistant to weathering
Excellent elongation	Expands and contracts with building movements and temperature extremes	Bridges hairline cracks
Breathable - high perm rate	Allows moisture vapor to escape while prohibiting water penetration	Minimizes freeze / thaw damage
Easy to apply	Low pressure spray, brush or roll	User-friendly material
Offers weather protection to both porous and dense substrates	Developed for use on above-grade vertical surfaces	Can be used on brick, block, concrete, stone and stucco
Excellent UV resistance	Retains original design appearance	Long-term aesthetic preservation
Cold weather applications, providing there is no frozen moisture present in the substrate	Longer coating season	Eliminates unprotected substrates
Single component product and cleaner	No mixing required	User-friendly material
System of Series 626 to protect and Series 680 to clean	Complete protection and remediation system	No concerns about impact or effectiveness of third party cleaner

CHEMPROBE

PRODUCT DATA SHEET

DUR A PELL GS SERIES 626

PRODUCT PROFILE

GENERIC DESCRIPTION RTV Silicone Rubber Water Repellent and Graffiti Protectant

COMMON USAGE Series 626 Dur A Pell GS has been formulated to provide superior protection against, and easy removal of unwanted graffiti. This product is intended for use in conjunction with Series 680 Mark A Way to provide a complete Graffiti Protection System. Dur A Pell GS is a clear, silicone rubber based formulation, which protects vertical concrete block, brick, cast concrete, stone and other masonry substrates with little or no change to the appearance of the untreated substrate. Dur A Pell GS protects both new and existing substrates by penetrating into the pores, to prevent graffiti penetration. It has excellent stability against ultraviolet rays and salt spray and provides long-lasting protection. **Note:** Series V626 conforms with air pollution regulations limiting Volatile Organic Compounds (VOC) to a maximum of 100 grams/litre (0.83 lbs/gallon).

PRODUCT DISTRIBUTION Single component, RTV silicone rubber, which provides a clear, non-sacrificial, penetrating barrier against graffiti, as well as water repellency on all uncoated vertical masonry surfaces.

COLORS Clear

FINISH Flat to slight sheen, depending on substrate.

PERFORMANCE CRITERIA Contact your Chemprobe/Tnemec representative for specific test results.

COATING SYSTEM

PRIMERS Apply directly to uncoated concrete and masonry substrates.

SURFACE PREPARATION

ALL SURFACES Surfaces to be treated must be clean, dry, and free from oil, dirt, grease, efflorescence, or any other coating, which may inhibit penetration and adhesion. For surfaces that have been power-washed, allow a minimum of 72 hours drying time. After rain, allow 48 hours drying time. Newly constructed surfaces should cure for 28 days before application. Caulking should be completed and cured prior to application. All repointing and repairs should be completed prior to material application. Extremely dense, vertical concrete surfaces (i.e. cast-in-place, vibrated, smooth-face concrete) should be prepared using sand, or other media for blasting, to facilitate penetration.
Dur A Pell GS may enhance or darken the surface appearance. To test for aesthetics, apply to an inconspicuous area prior to a large-scale application. Protect all glass and surrounding surfaces from overspray.

TECHNICAL DATA

VOLUME SOLIDS 15%

RECOMMENDED DFT Penetrating coating system, no DFT recommended. Two flood coats required for graffiti protection. One coat for water repellent applications.

CURING TIME

Temperature	To Touch	To Recoat	Initial Cure	Full Cure
75°F (24°C)	2 hours	30 minutes to 2 hours	6-12 hours for Moisture Intrusion	24 hours for Moisture Intrusion, 5 days for Graffiti Protection

Curing time varies with surface temperature, substrate porosity, air movement, humidity and application rate.

VOLITILE ORGANIC COMPOUNDS **626:** 5.49 lbs/gallon (658 grams/litre)
V626: 0.81 lbs/gallon (97 grams/litre)

NUMBER OF COMPONENTS One

PACKAGING 5 gallon (18.96 L) pails and 1 gallon (3.79 L) cans

NET WEIGHT PER GALLON 6.8 ± 0.10 lbs/gal (815 g/L))

STORAGE TEMPERATURE Minimum 40°F (4°C) Maximum 90°F (32°C)
This product will react with atmospheric moisture. Keep unused material tightly closed at all times. Any material remaining in an opened container should be properly disposed of according to all applicable regulations.

TEMPERATURE RESISTANCE (Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

SHELF LIFE 12 months at recommended storage temperature.

FLASH POINT - SETA **626:** 105°F (41°C) **V626:** 103°F (39°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.
Keep out of the reach of children.

DUR A PELL GS | SERIES 626

APPLICATION

COVERAGE RATES

Note: Always shield glass, wood and other surfaces that are not intended to be treated from overspray. Any overspray should be removed immediately. Also, protect asphaltic and painted surfaces, trees, shrubs and other landscaping from overspray. Coverage rates are only guidelines and will vary depending upon the texture of the surface and porosity of the substrate.

Substrate	Sq. Ft./Gal.	m²/litre
CMU	65 - 85	1.6 - 2.1
Brick	125 - 150	3.1 - 3.7
Concrete †	200 - 300	4.9 - 7.4
Limestone	125 - 150	3.1 - 3.7
Sandstone	95 - 125	2.3 - 3.1

Apply with a saturating coat allowing for a 4" to 6" rundown. A test application **must** be performed to determine the exact coverage rate, desired appearance and compatibility of Dur A Pell GS and the substrate before beginning a full-scale application.
† For dense concrete, backrolling may be required to create an even and uniform appearance.

MIXING

Not required.

THINNING

Do not thin. **Note:** Where lower VOC is required, use V626 to comply with VOC regulations.

POT LIFE

Pot life can vary based on temperature and humidity. Application time should not exceed 8 hours once product has been opened.

APPLICATION EQUIPMENT

Apply using a low-pressure sprayer with a fan tip that allows for an application pressure of 20 to 40 psi. Apply first coat in a saturating spray application from bottom up. Apply sufficient material to create a 4" to 6" rundown below the contact point. Caution should be used on dense substrates to not overapply. On dense substrates, minimal rundown is required to avoid over application. Backroll all areas that appear to be fully saturated. A second coat is required for graffiti protection; apply once first coat appears dry (30 minutes to 2 hours) depending on temperatures and substrate. All coats should be examined for areas of over application and such areas should be brushed or backrolled to avoid excessive film build and unsightly darkening.
Roller: Use 1/2" synthetic nap cover.
Brush: Recommended for small areas only. Use nylon or other synthetic material bristle brushes resistant to solvent solutions.
Note: Avoid excessive overlapping or over application. Brush or roll out all heavy runs and drips.

SURFACE TEMPERATURE

Minimum 40°F (4°C) Maximum 100°F (38°C)
The surface should be dry and at least 5°F (3°C) above the dew point. **Note:** May be applied at a lower temperature, providing that there is no frozen moisture present in the substrate. Application should be completed at least twelve (12) hours before onset of precipitation. When applied at temperatures below 40°F (4°C), the product will cure at a slower rate.

MAINTENANCE

Graffiti Removal: Surfaces that have been properly treated with Series 626 provide for easy removal of graffiti using Series 680 Mark A Way. Remove graffiti as soon as possible after surface has been defaced. Apply Mark A Way directly to the "tagged" surface and allow it to work for 5 to 8 minutes keeping substrate wet with cleaner. Agitate with a nylon brush and rinse thoroughly with water. A power washer (not to exceed 1000 psi) may be required to completely remove graffiti. After surface has been cleaned and allowed to dry completely, it will continue to protect against graffiti penetration and permit additional cleaning cycles if necessary. In areas that receive multiple "taggings" and if graffiti removal becomes difficult, a reapplication of Dur A Pell GS may be required. **Note:** Use of any product other than Mark A Way to remove graffiti may damage the protective coating, thereby necessitating reapplication of Series 626 Dur A Pell GS. Contact your Chemprobe representative for assistance.

CLEANUP

Flush and clean all equipment immediately after use with mineral spirits.

ACCELERATED WEATHERING

METHOD: ASTM C 793.
SYSTEM: Series 626 Dur A Pell GS applied to concrete.
REQUIREMENT: No signs of deterioration except for dirt accumulation after 4,000 hours exposure. (TR5201)

CHLORIDE ION PENETRATION

METHOD: AASHTO T-259.
SYSTEM: Series 626 Dur A Pell GS applied to concrete.
REQUIREMENT: No less than a 1500% reduction in the chloride ion content when compared to untreated concrete, average of two tests. (TR5202)

HYDROSTATIC PRESSURE RESISTANCE

METHOD: ASTM D 751.
SYSTEM: Series 626 Dur A Pell GS free film.
REQUIREMENT: No less than 35 psi (241 kPa) hydrostatic pressure resistance, average of three tests. (TR5203)

WATER PENETRATION AND LEAKAGE

METHOD: ASTM E 514.
SYSTEM: Series 626 Dur A Pell GS applied to brick wall.
REQUIREMENT: No penetration of dampness on back of test substrate after four hours continuous exposure. (TR5206)

WATER VAPOR TRANSMISSION

METHOD: ASTM E 96.
SYSTEM: Series 626 Dur A Pell GS applied to brick.
REQUIREMENT: No less than 90% retention of the permeability characteristics of brick. (TR5204)

METHOD: ASTM E 96.
SYSTEM: Series 626 Dur A Pell GS free film.
REQUIREMENT: No less than 12 perms water vapor permanence, average of two tests. (TR5205)

This product will meet or exceed the above test requirements established for the coating systems listed. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating. Published technical data is subject to change without notice. The online catalog at www.tnemec.com should be referenced for the most current technical data and instructions. For additional performance criteria and specific test results, contact Tnemec Company or its representative.

CHEMPROBE

PRODUCT DATA SHEET

MARK A WAY SERIES 680

PRODUCT PROFILE

GENERIC DESCRIPTION Citrus Aroma Graffiti Cleaner

COMMON USAGE Liquid cleaner used in association with Chemprobe Series 626 Dur A Pell GS to remove graffiti from block, brick, concrete, stone and other porous masonry substrates. May also be used alone for the removal of most types of graffiti in a single application.

TECHNICAL DATA

VOLITILE ORGANIC COMPOUNDS 7.04 lbs/gallon (844 grams/litre)

PACKAGING 1 gallon (3.79 L) cans, quarts (.95 L)

STORAGE TEMPERATURE Below 100°F (38°C)

SHELF LIFE 2 years at recommended storage temperature.

FLASH POINT - SETA 115°F (46°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.
Keep out of the reach of children.

APPLICATION

APPLICATION EQUIPMENT Remove graffiti as soon as possible after surface has been defaced. Apply Mark A Way cleaner by brush, roller or low pressure sprayer directly to the "tagged" surface and allow it to dwell for 5 to 8 minutes keeping substrate wet with cleaner. Agitate completely with a nylon scrub brush and rinse thoroughly with water. A power washer (not to exceed 1000 psi) may be required to remove graffiti. After surface has been cleaned and allowed to dry completely, Dur A Pell GS will continue to protect against graffiti penetration and permit additional cleaning cycles if necessary. In areas that receive multiple "taggings" and if graffiti removal becomes difficult, a reapplication of Dur A Pell GS may be required. If after multiple cleanings, deep-seeded graffiti remains, a more stringent paint remover may be required to completely remove all residual markings. In this case, upon complete cleaning and removal of all unwanted "markings," a reapplication of Dur A Pell GS can be applied to a sound, dry substrate.
Note: Use of any product other than Mark A Way to remove graffiti, may damage the protective coating, thereby necessitating reapplication of Series 626 Dur A Pell GS. Contact your Chemprobe representative for assistance.

CLEANUP Dispose of excess run-off in compliance with local regulations.

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