



NEW SIKAGARD®-850 CLEAR ANTI-GRAFFITI SYSTEM

NOVEMBER 2020,
TM REFURBISHMENT

SIKA EUROPE MANAGEMENT AG/ SIKA SERVICES AG

BUILDING TRUST



AGENDA

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INTRODUCTION

Street Art or Vandalism?



GRAFFITI REMOVAL

- 1 GRAFFITI COST LONDONERS £ 100M A YEAR¹**
- 2 IN UK, GRAFFITI REMOVAL COST £ 1 BILLIONS A YEAR²**
- 3 IN FRANCE, ESTIMATION OF COST TO MORE THAN 10 MILLIONS EUROS PER YEAR³**
- 4 IN US, GRAFFITI COST REMOVAL IS ESTIMATED TO \$ 1.3 BILLION PER YEAR⁴**

Source:

- | | |
|----|------------------------------------|
| 1: | Southwark council webpage |
| 2: | BBC News May 2002 |
| 3: | French Senat Journal officiel 2001 |
| 4: | The Norgrad Network |



ILLEGAL POSTERS POLLUTION

- 1 100'000 POSTERS REMOVED IN PARIS EVERY YEAR - > 3 MIO €
- 2 SYDNEY CITY HALL SPEND >1 MIO A\$ A YEAR



GRAFFITI REMOVAL

- Typical anti-graffiti removal solutions



Chemical cleaning



Hot water cleaning



Over-painting



Sand blasting



Disadvantages of current solutions:

- Chemical agent required for cleaning.
- Costly/ unaesthetic successive over-paintings.
- Need for special cleaning equipment (hot water high pressure cleaning, sand blasting, etc.).
- Residue shadows after sandblasting cleaning.

TYPES OF ANTI-GRAFFITI COATINGS

DIFFERENT TYPE OF COATINGS

- **Sacrificial / Semi Sacrificial Coatings:**
 1. Hard polymer based
 2. Soft, sacrificial topcoat
 3. Wax based either alone or combined with siloxane
- **Permanent Coatings:**
 1. Aliphatic polyurethane over primer (typically required chemical cleaner)
 2. Modified siloxane (required also chemical cleaner)

SOLUTIONS AVAILABLE IN THE MARKET

- **Sacrificial / Semi Sacrificial Coatings:**
 1. Sikagard AG (Canada)
 2. Enviroguard AG, Surfaceshield S
 3. Mapei WallGard Graffiti Barrier, Sikagard-781 S (Poland), Sikagard-777 (Sweden)
- **Permanent Coatings:**
 1. Vernaeau PU 16 from Scalp Industry – water based PU permanent protection (required chemical cleaner)
 2. Evonik Antigraffiti (required chemical cleaner)

NEW SIKA ANTI-GRAFFITI SYSTEM

- **Sikagard®-850 system** offers a unique and permanent protection solution against graffiti and illegal posters.

Articles	Description	
Sikagard®-850 Clear	Anti-graffiti topcoat	5, 20 kg. pails*
Sikagard®-850 Primer	Primer for bare mineral substrate	0.8, 4 kg. pails
Sikagard®-850 Activator	Primer for coated minerals surface	0.8, 4 kg. pails


*160 kg. drums under request (MTO)



NEW SIKA ANTI-GRAFFITI SYSTEM



- **Sikagard®-850 Clear** is a 1-part ready to use, polyorganosiloxane based, permanent anti-graffiti and antifly poster clear gloss coating. This product is part of the Sikagard Anti-graffiti system.
- Permanent coating that does not need to be recoated after graffiti removal like alternative sacrificial systems.
- Can be applied by brush, roller or airless spray.
- Very low dirt pick-up.
- No chemical agents required for cleaning, only brush and water or cold low water pressure (80 bars).
- Prevents posters adhesion.

- 
- ✓ Solids: ~65% by weight
 - ✓ VOC: < 355 g/L
 - ✓ Gloss: ~ 15% < 60°
 - ✓ Dry to touch: < 2 hrs.
 - ✓ Tack Free: < 4 hrs.
 - ✓ Anti-graffiti properties: 24 h
 - ✓ Can be recoated with itself (e.g. after mechanical damage)

Substrates:

- Concrete, masonry, cement render (coated or uncoated)
- Substrates previously treated with a hydrophobic impregnation
- Wood (coated or uncoated)

NEW SIKA ANTI-GRAFFITI SYSTEM



- **Sikagard®-850 Primer** is a 1-part ready to use primer for Sikagard®-850 Clear on uncoated mineral substrates
- Low viscosity, penetrate well mineral surfaces
- Ready to use - no on-site dilution required
- Applied by brush, roller or airless spray



- **Sikagard®-850 Activator** is a 1-part ready to use primer for Sikagard®-850 Clear on coated mineral substrates.
- Free of toluene and other aromatic solvents
- Low consumption



Suitable for bare mineral substrates:

- ✓ Concrete
- ✓ Stone
- ✓ Bricks
- ✓ Render
- ✓ In mass tinted render
- ✓ Etc.

Suitable for coated mineral substrates:

- ✓ Decorative paints
- ✓ Anti carbonation coatings
- ✓ Other coatings currently under testing

PHYSICAL PROPERTIES OF THE CURED COATING

- High UV resistance
- Excellent gloss retention
- Water vapor breathable
- Heat resistance
- Enduring many cleaning sequences
- Elastomeric properties
- Hydrophobicity
- Can be tinted with pigment compatible with solvent based coating



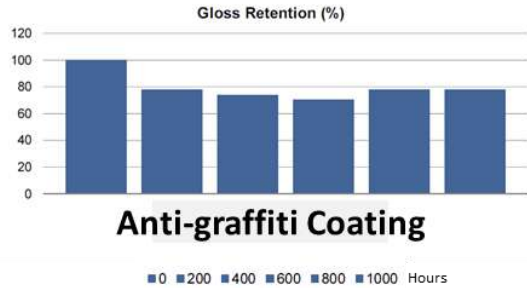
FIELD OF APPLICATION/ POTENTIAL CUSTOMERS

- Civil Engineering Structures
- Highways authorities (bridges, sound barrier, rest areas)
- Schools and Universities
- Port authorities
- Transit authorities – subway, bus and train depots
- Transportation – railcars
- Parking decks
- Urban commercial properties



PHYSICAL PROPERTIES OF THE CURED COATING

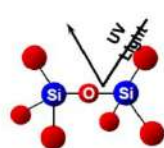
- Durability and gloss retention



ORGANIC POLYMER

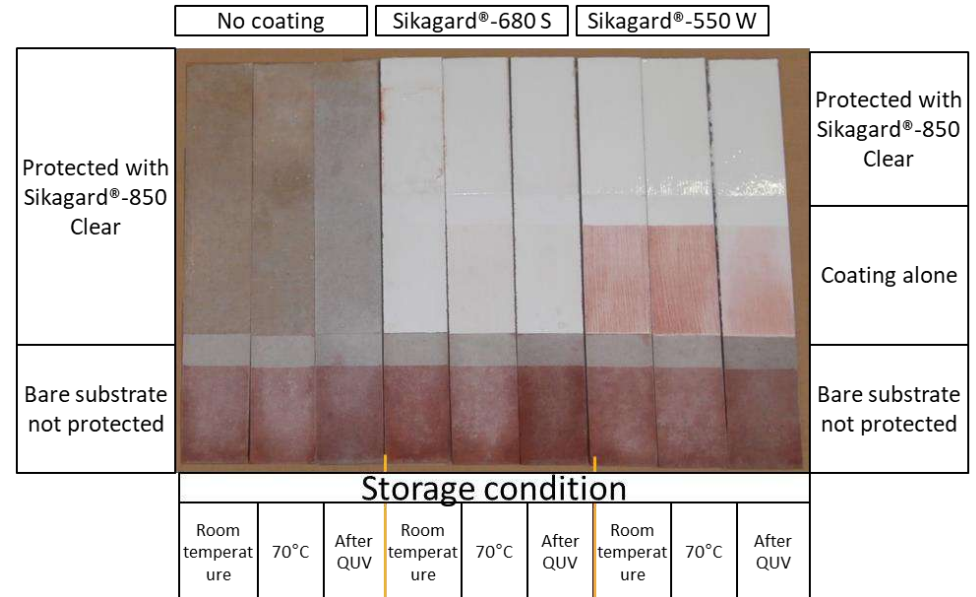


INORGANIC POLYMER



- C-C-Bond (350 kJ mol^{-1}) is weaker than the Si-O-bond (452 kJ mol^{-1})
 - Polysiloxanes are extremely resistant to oxidation
- ⇒ **Better durability (weatherable), gloss and color retention**

- Dirt pick-up



SIKAGARD®-850 CLEAR CAN BE PIGMENTED



- Application of the product, tinted with 5% solvent-based, white pigment and blue pigment (e.g. from PPG Coatings) in two layers.




- Application of tinted product with 4% solvent-based, grey pigment (mixing white and 4% by weight black pigment, e.g. from PPG Coatings).

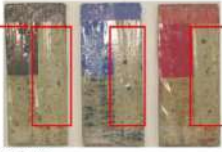


SIKAGARD®-850 CLEAR CLEANING PROPERTIES

- Graffiti applied* after 24 hr cure
- Exterior exposure for 30 days




After removal



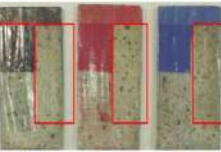
- Washed right side using water pressure cleaning

*Panels tagged with black, blue and red Krylon aerosol paint and sharpie

- Panels exposed in QUV for 1000 hrs
- Tagged* and cured for 9 days




After removal




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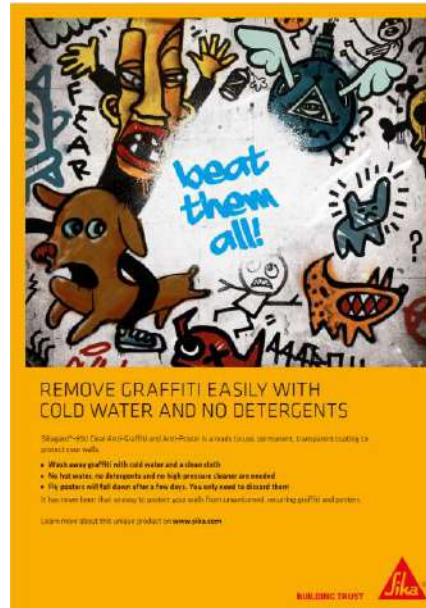


MARKETING TOOLS & DOCUMENTATION

- Following marketing tools are available



Application video – Ctrl + click on the image to open



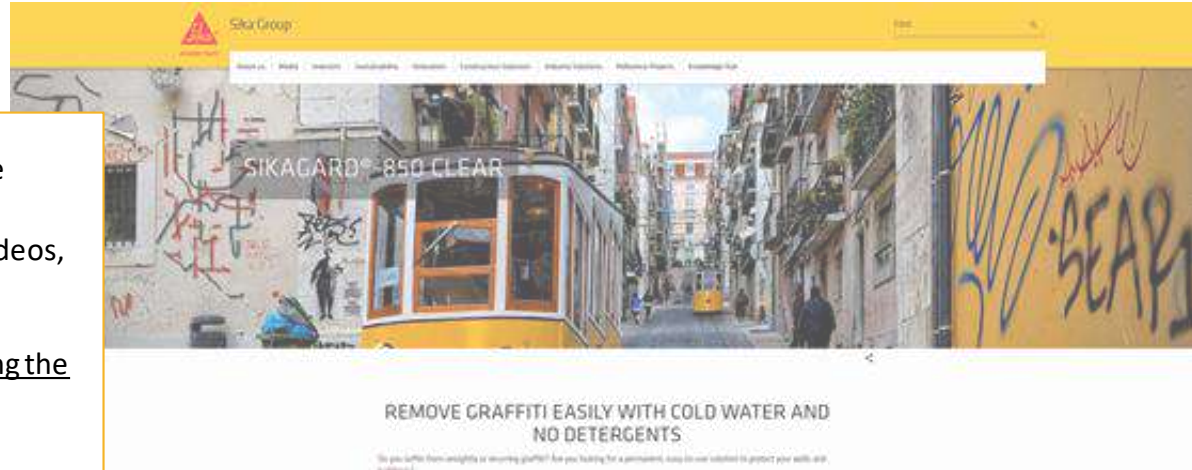
Advertisement in A1, A3 & A4 sizes Portrait & landscape - Document available in DAM



Method Statement – Document available in EDMS

SIKAGARD®-850 SYSTEM LANDING PAGE

- A landing page has been created and will be accessible for customers by scanning a QR code printed in the labels.
- Customer-friendly tool to ease the access to videos, documentation, SAW, etc. especially in the distribution business.
- The page should be adapted at local level during the roll-out phase* by translating a short text and including local documentation.



*To get access to the landing page translation form please contact directly.

Christine Jones
Regional Communications and
Marketing Manager EMEA



- Booklet type labels designed including in a first step following languages:
[BG, CS, DE, EL, EN, ES, FR, HR, IT, NL, PL, PT, RO, SK, SR](#)

- For other languages* or formula information for domestications please contact Sika Portugal.

*Potential sales estimation required

SIKA AT WORK

- Very interesting references available where the new system or former version were applied.



SIKA AT WORK
NETWORK RAIL SECTION KIATO – RODODAFNI,
GREECE

- Site coloured ~ 11tn for 70'000m².



SIKA AT WORK
PROTECTION OF ATHEN'S DOWNTOWN
HISTORIC CENTER, GREECE

PROJECT PARTICIPANTS
Owner: Municipality of Athens
Contractor: K2 MONOSI P.C.C.
Project Sponsor: RAYCAP S.A.



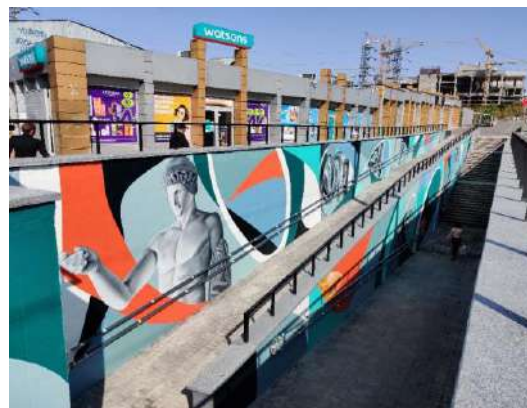
SIKA AT WORK

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SIKA AT WORK
FACTORY PERIMETER WALL – VALENCIA, SPAIN.

- Application on a coated concrete fence
- Si kagard®-850 Activator + Si kagard®-850 Clear ~ 1'000m².



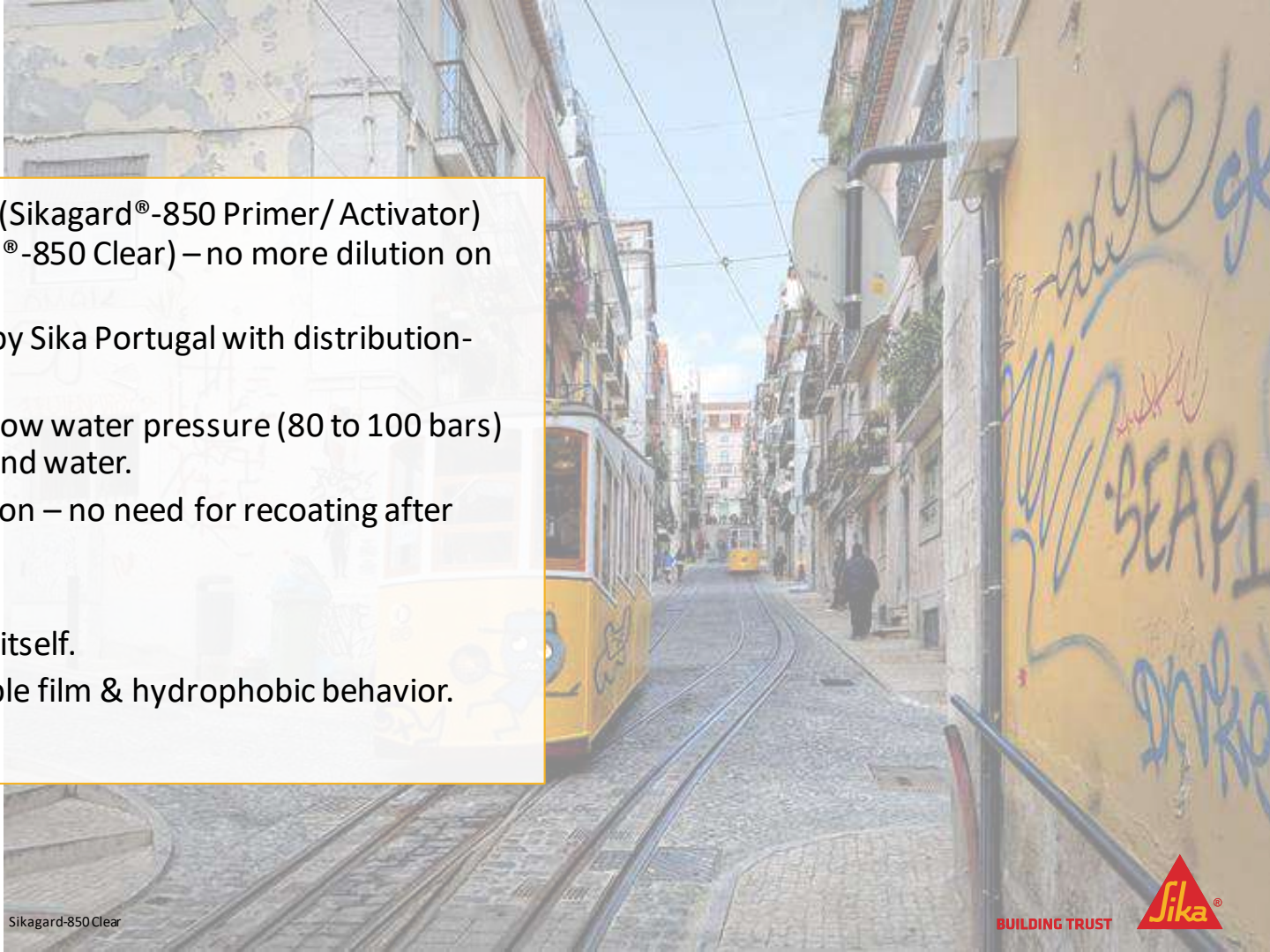
SIKA AT WORK
PROTECTION OF PEDESTRIAN BRIDGE &
UNDERPASS – KIEV- UKRAINE

- Protection against vandalism of granite blocks of the pedestrian bridge in Kiev and protection of drawings in the underpass.



KEY POINTS

- Ready to use primers (Sikagard®-850 Primer/ Activator) and topcoat (Sikagard®-850 Clear) – no more dilution on site required.
- In-house production by Sika Portugal with distribution-oriented packaging.
- Graffiti removal with low water pressure (80 to 100 bars) or only with a brush and water.
- “Permanent” protection – no need for recoating after cleaning the graffiti.
- Ease of application.
- Can be recoated with itself.
- Water vapor breathable film & hydrophobic behavior.
- Can be tinted.





THANK YOU

GRAFFITIES AND POSTERS ARE A BIG PROBLEM EVERYWHERE

In the US estimated cost for graffiti removal is up to \$ 1.3 BILLION

> 100,000 FLY POSTERS have to be removed in Paris year by year ...

> € 10 MILLION are spent in France to clean graffiti

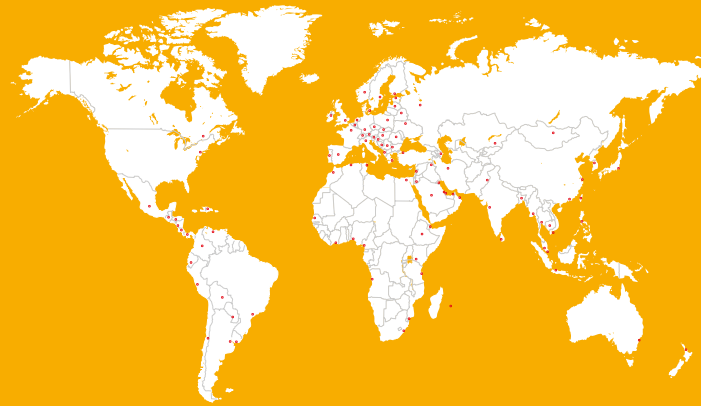
Sydney city hall spends around \$ 1 MIO. for poster cleaning

NO MORE VANDALISM – BIG SAVINGS

REMOVE GRAFFITI EASILY BY USING BASIC PRESSURE CLEANER OR COLD WATER AND A CLOTH. JUST DISCARD FALLING POSTERS.



SIKA AG CORPORATE PROFILE



WE ARE SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply.
Please consult the most current local Product Data Sheet prior to any use.

Sika Services

Refurbishment
CH-8048 Zurich
Switzerland
Phone +41 58 436 23 68
www.sika.com

Sikagard®-850 Clear ANTI-GRAFFITI AND ANTI-POSTER

Ready to use, permanent solution



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Sikagard®-850 Clear Anti-Graffiti and Anti-Poster

ADVANTAGES

Sikagard®-850 Clear, ready to use, anti-graffiti & anti-poster, transparent, UV resistant coating. Slight glossiness that enhances colors of substrate.



- Ready to use
- Easy application



- Permanent solution
- No re-coating after graffiti removal required



- No hot water
- No high pressure cleaning
- No chemical cleaner needed



- Fly posters will fall down on their own weight

EASY AND PERMANENT SOLUTION



FOR ALL KIND OF SUBSTRATES

Concrete - coated (with Sikagard®-850 Activator) & uncoated (with Sikagard®-850 Primer)



Masonry - including painted surface (with Sikagard®-850 Activator) or substrate treated with hydrophobic impregnations (with Sikagard®-850 Primer)



Wood - Natural (no primer required) and coated (with Sikagard®-850 Activator)





REMOVE GRAFFITI EASILY WITH COLD WATER AND NO DETERGENTS

Sikagard®-850 Clear Anti-Graffiti and Anti-Poster is a ready to use, permanent, transparent coating to protect your walls:

- Wash away graffiti with cold water and a clean cloth
- No hot water, no detergents and no high pressure cleaner are needed
- Fly posters will fall down after a few days. You only need to discard them

It has never been that so easy to protect your walls from unwelcomed, recurring graffiti and posters.

Learn more about this unique product on www.sika.com