



GREENSOLV inc.

## TECHNICAL BULLETIN

### G-CLEAN 327

### CLEAN & ETCH – CONCENTRATE

### Metals & Concrete

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#### 1) PRODUCT DESCRIPTION

**G-CLEAN 327** is designed to promote adherence and clean metal and concrete surfaces before applying a new coating. It will also maximize paint adhesion on galvanized steel by etching it. It is biodegradable with 0% VOC (Volatile Organic Compound) and has a very low toxicity. It is mainly used for the following applications:

- Etching galvanized steel and other metals prior to a coating application;
- Etching Concrete prior to a coating application;

**Note:** “CLEAN & ETCH – concentrate” replaces the former “CLEAN & ETCH”, which was a ready-to-use product. *To obtain the same concentration with the new product, use the following dilution:*

New CLEAN & ETCH – concentrate	20%
<u>Water</u>	<u>80%</u>
Former CLEAN & ETCH	100%

#### 2) BENEFITS

CLEAN & ETCH – CONCENTRATE has some excellent etching & cleaning capabilities without being harmful to the user or to our environment. The main benefits of CLEAN & ETCH – CONCENTRATE are:

- Increases the adherence between a new coating and concrete
- Efficiently passivate galvanized steel and other metals
- 0% VOC
- Concentrate – **can be diluted 1:4**
- Water based and biodegradable

### 3) PHYSICAL PROPERTIES

Appearance .....	colorless liquid
Odour .....	mildly acidic
pH (Sol. 1%) .....	1.3 – 2.3
Rinseability .....	excellent
Flash point.....	none
Specific gravity .....	1.06 - 1.12
Biodegradable .....	yes

### 4) DIRECTIONS FOR USE

**COVERAGE.** Approximately 42m<sup>2</sup> (450ft<sup>2</sup>) per 3.78L when diluted 1:1.

#### CONCRETE ETCHING

YOU HAVE 2 OPTIONS:

1. *RINSING WITH WATER*
2. *WITHOUT RINSING WITH WATER*

*Tests show that not rinsing the Clean & Etch with water obtains good paint adherence results.*

*However, when using this product or any other etching product on concrete, SSPC do recommend rinsing with water for best results. Salts contained in etching solutions will stay on the surface of concrete. Moreover, if not rinsed, the surface pH will probably not be optimal.*

#### 1. RINSING WITH WATER

*ALWAYS TEST ON A SMALL SURFACE BEFORE USE.*

*Note : for your safety, when making the dilution, always add G-CLEAN 327 to water and not the contrary.*

*Note : it is important to treat the concrete surface by 10m<sup>2</sup> (100ft<sup>2</sup>) sections. If the product dries out OR is not rinsed properly, white salts deposits could appear on the surface. They are difficult to remove.*

*Note : once applied on the surface, it is important to flush the product with sufficient water. Use approximately 20 litres of water per 10m<sup>2</sup> (100ft<sup>2</sup>) section.*

- For heavily contaminated surfaces, use DEGREASER – CONCENTRATE (G-MAX 328) to clean the surface before using this product and rinse with plenty of clean water.
- Dilute this product with 1 part of water and 1 part of G-CLEAN 327. Mix the solution for approximately 30 seconds.

- Apply the diluted solution on the surface to be treated with a sprayer, a rag or a floor mop.
- Let work for 15 minutes (keep the surface wet with the G-CLEAN 327 diluted solution, if it dries, reapply).
- Brush or scrub the surface if needed to remove contaminants.
- Rinse with plenty of water until foam disappears.
- Let the surface dry completely before applying a new coating.

## **2. WITHOUT RINSING WITH WATER**

*ALWAYS TEST ON A SMALL SURFACE BEFORE USE.*

*Note : for your safety, when making the dilution, always add G-CLEAN 327 to water and not the contrary.*

- Dilute this product with 4 parts of water and 1 part of G-CLEAN 327. Mix the solution for approximately 30 seconds.
- Apply the diluted solution on the surface to be treated with a sprayer, a rag or a floor mop.
- Let work for 15 minutes (keep the surface wet with the G-CLEAN 327 diluted solution, if it dries, reapply).
- Let the surface dry completely before applying a new coating.

## **METALS ETCHING (including galvanized steel)**

*ALWAYS TEST ON A SMALL SURFACE BEFORE USE.*

*Note : it is important to treat the concrete surface by 10m<sup>2</sup> (100ft<sup>2</sup>) sections. If the product dries out OR is not rinsed properly, white salts deposits could appear on the surface. They are difficult to remove.*

*Note : it is recommended to use compressed air or a dry cloth to dry the metal surface after it has been rinsed with water, it will avoid corrosion problems*

- For heavily contaminated surfaces, use DEGREASER – CONCENTRATE (G-MAX 328) to clean the surface before using this product and rinse with plenty of clean water.
- Dilute this product with 1 part of water and 1 part of G-CLEAN 327. Mix the solution for approximately 30 seconds.
- Apply the diluted solution on the surface to be treated with a sprayer, a rag or a floor mop.
- Let the product work for a minimum of 5 minutes and a maximum of 15 minutes. (keep the surface wet with the G-CLEAN 327 diluted solution, if it dries, reapply).

- Let the surface dry, it is recommended to use compressed air or a dry cloth to accelerate the process and avoid surface corrosion.
- To verify if the galvanized steel surface has been passivated, use a saturated copper sulphate solution (add as much copper sulphate as you can to a water sample). Add a few drop on the passivated surface, if it turns black, the galvanized steel IS passivated. Rinse the test area with water.
- The surface is now ready to be coated. It is recommended not to wait too long before applying a coating on the surface to avoid surface corrosion.

## **5) PERSONAL PROTECTION**

When using G-CLEAN 327, it is recommended to wear the following safety equipments:

- Safety glasses,
- Chemical resistant gloves,
- Long sleeves and/or rubber (or plastic) jacket

## **6) STORAGE**

Store G-CLEAN 327 at a controlled temperature of 0° C to 30° C (32° F to 86° F) in a plastic container. The product will freeze below 0°C (32°F). Store in a closed plastic container when not in use. The shelf life of the product has been determined to be three (3) years.

## **7) PACKAGING**

**G-CLEAN 327** is available in following size containers:

- Case of 4 x 1 USGallon (4 x 3.78L)
- Pail (18.9 Litres/ 5 Gallons)
- Drum (205 Litres / 55 Gallons)

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