

Technical datasheet

Valhall CleanGel, rust remover/cleaner



Revision 3. Nov 2018

PRODUCT DESCRIPTION

A single component, water-based rust remover/cleaner gel, 100% biological degradable and free for toxins.

AREA OF USE

CleanGel is designed to remove light to medium rust deposits from a variety of surfaces.

Suitable as a cleaning agent to remove rust stains in coated areas. Can be used as an alternative to traditional sandblasting, UHP water blasting or power tools where these methods have been ruled out for various reasons. Can remove mill scale.

Effective for removal of corrosion on stainless steel structures and aluminum*.

PRACTICAL INFORMATION

Colour: Yellow

Typical thickness 400 – 500 Microns WFT

Theoretical coverage 2m² when applying 500 microns

Practical Coverage Allow for appropriate loss factors

Method for application Airless spray recommended, Brush and roller for smaller areas.

REGULATORY DATA

Value: ~ 1177,033 kg/m³

Viscosity ~ 6000 mpa

SURFACE PREPARATION

Any loose rust deposits and loose paint should be removed prior to application in order to aid penetration of the product. Surfaces not to be treated should be masked and protected.

- Galvanized surfaces can be affected by the product, covering of galvanized areas should be considered.
- Use of the product on GRP (e.g Fibaclad FRM1) will cause discoloration of the surface.
- *Some alloys of stainless steel & Aluminum may experience discoloration, please perform a test patch before use, se below.
- Pure epoxy topcoats can experience white staining when using this Gel, please test sufficient area before use if staining will be an issue

Oil or grease should be removed using suitable degreaser before applying product.

Test Patch

It is strongly recommended that a small test patch should always be carried out on a representative area in order to ascertain the optimum application thickness and activation time required to successfully remove the rust deposits. Activation times are very much dependent upon the in-situ rust level and condition; however, a typical working time is within 12 to 24 hours for carbon steel, shorter for aluminum & stainless steel.

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APPLICATION

Mixing	Mixing should not normally be required but if separation has occurred the product should be hand mixed until homogeneous.
Mix Ratio	N/A
Airless spray	Recommended. Apply through a 0.53-0.79 mm (21 to 31 thou) tip with a spray angle of between 65 and 80°. Pressure at spray tip should not exceed 105 kg/cm ² (1500 p.s.i.). High pressures are not required to apply a uniform coat. See Product Characteristics.
Air spray (Pressure Pot)	Not suitable
Air Spray (Conventional)	Not suitable
Brush/Roller	Possible, use soft brush and apply generously and evenly. Typically, 200-300 microns can be achieved.
Thinner	Not recommended
Cleaner	Clean Potable water
Work Stoppages	Product containers should be resealed to prevent drying out of the product.
Clean Up	Clean equipment immediately after use with water. Dispose of washing in accordance with local environmental legislation. Neutralizing and dilution with water may be required to meet local waste or sewage disposal requirements depending on where products is used. Spills should be contained and disposed of under the same requirements.
Removal	It is recommended to use High pressure water washing (preferably hot water and rotating nozzle). This improves removal rates and reduce water usage. 300 – 500 bar pressure is advised for large areas and to aid removal of alkaline salts from steel substrates. Lower pressure is possible but will be less effective. Areas cleaned down to bare steel should be repainted as quickly as possible to prevent re-oxidation.

PRODUCT CHARACTERISTICS

Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved.

Typical working pressures for airless spray application are approximately 105kg/cm² (1500 p.s.i.). This allows both an even atomization and film formation to be achieved. Excessive pressures should be avoided as this can lead to poor atomization and film formation thus reducing product efficiency.

The removal rate of rust deposits is dependent upon the thickness and uniformity of product. Repeat applications may be required for areas where the rust level is high.

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Test patching is recommended to determine activation time and removal efficiency prior to full application.

When applying the product in confined spaces ensure adequate ventilation.

The product must be protected from freezing at all times during storage. Can be exposed for freezing in shorter periods (during transport).

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s) and should not be used without reference to the Material Safety Data Sheet (MSDS) which Valhall NGP AS has provided to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

For Health and Safety reasons this product must not be transferred out of its original packaging.

If in doubt regarding the use of this product, consult Valhall NGP AS for further advice.

Pack Size

5 liter can
25 liter can
200-liter drum
1000-liter IBC container

Shipping weight

1,190Kg / liter.
U.N Shipping No. Non Hazardous

Storage

Shelf life 12 months minimum at 20°C. Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. Protect from freezing at all times during storage

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.