



MCU-Ecocleaner® Gel

A New Surface Cleaning Technology



MCU Coatings® is the system of choice on 52 Shell oil & gas platforms in the North Sea. They are also being applied in S.E. Asia on the 'Rosmari Marjoram Project', a Shell / Samsung joint venture where the climatic considerations could not be more different

MCU-Ecocleaner® Gel is an environmentally friendly, chemical-based surface preparation that removes rust grades A (mill scale), B & C in a matter of hours, with minimal labour or overheads – and removes flash rust in less than 45 minutes*

Imagine:

- ✓ being able to abrasive blast days in advance and removing flash rust in 30-45 minutes without any further abrasive blasting
- ✓ supplementing abrasion blasting Sa 2 / 2½ and power tool St 3 surface preparation
- ✓ being twice as efficient with your surface preparation
- ✓ cleaning difficult to reach areas with a chemical surface preparation
- ✓ cleans and prepares crevices between 2 riveted metal beams
- ✓ being able to effectively and easily clean weld seams
- ✓ deep cleaning pitted surfaces
- ✓ no need for corrosion inhibitors when water-jetting
- ✓ no dust, and not needing to contain or clean-up grit blast residues; or
- ✓ being able to etch non-ferrous substrates, such as aluminium,

with a simple to use chemical cleaning system

About

MCU-Ecocleaner® (water-based) Gel is a powerful new technology to clean metal surfaces prior to applying a protective coating, which will improve operational efficiencies and also complement existing surface preparation techniques because it is cost effective, saves labour, improves the quality of the surface preparation and gets into areas where traditional cleaning processes cannot reach

The additional time taken on projects because of switching between abrasive blasting / high pressure water / power tool cleaning and painting can be substantially reduced because it is now possible to prepare large areas days in advance as the flash rust and surface gingering can be removed by MCU-Ecocleaner® Gel in as little as 30-45 minutes* - while the dust is settling, or after the surfaces have dried

The gel is simply applied, by brush, spray or roller, covered if necessary to prevent evaporation, and washed off 45 minutes – 12 hours later - depending on the severity of the corrosion. It is also highly effective at removing mill scale, green algae, humus, barnacles and limestone deposits

MCU-Ecocleaner® Gel is environmentally friendly, reduces health and safety risks, is non-flammable, non-toxic and biodegradable

Now you can avoid this kind of issue, which detracts from a lot of good work and invariably results in premature maintenance



* for that amount of time it does not need to be covered unless in extreme conditions. Time required is dependent on level of gingering and prevailing weather conditions

Rust Grade B after 6 hours of MCU-Ecocleaner® Gel



Rust Grade C after 9 hours of MCU-Ecocleaner® Gel



Before

After

(the remaining black spots on these images are imperfections in the steel, and are not mill scale or corrosion. The surfaces are ready for painting)

Features	Benefits
Eco-friendly	Environmental benefits
Simple brush, spray or roll-on	Rapid application
Ability to clean large areas quickly and easily	Highly efficient
Ability to be applied in hard to reach and inaccessible areas	Able to remove rust in previously inaccessible areas. Significantly reduces the time it would otherwise take to mechanically clean some areas
Able to penetrate between steel plates to remove crevice corrosion	Reduces the incidence of premature warranty claims where inaccessible spaces would have been painted over with insufficient preparation
Rapidly removes flash rust and zinc salts	Can change work sequences to improve painting efficiencies. No need for abrasive-blasting
Cleans and etches aluminium and non-ferrous metals	Able to etch and paint without supplementary cleaning or abrasive-blasting
Wipe-off and wash	Minimal containment necessary
Supplement abrasion blasting Sa 2 / 2½ & power tool St 3 surface preparation	Improve efficiencies

Aluminium prepared with MCU-Ecocleaner® Gel, after 3 hours, washed and dried, now etched and ready for coating – no mechanical preparation required



Corrosion never sleeps so imagine applying MCU-Ecocleaner® Gel, leaving it to work overnight, and arriving the next day to find a perfectly clean steel surface

Steel rust grade C surface after applying MCU-Ecocleaner® Gel and leaving it for 9 hours:

At 3.5 x magnification



At 35 x magnification



Using MCU-Ecocleaner® Gel improves the overall quality and efficiency on recoating projects because it:

- ✓ is able to reach and thoroughly clean the tight and otherwise inaccessible areas that traditional surface preparation methods find impossible to clean
- ✓ is relatively inexpensive and can work overnight; and
- ✓ will most likely prevent the need for premature maintenance in areas that would otherwise have been painted over without appropriate surface preparation because they were inaccessible

MCU-Ecocleaner® Gel is also an extremely valuable cleaning aid as it allows applicators to effectively multi-task, even in inclement weather, and in certain cases no additional surface preparation is required because MCU-Coatings® are effectively able to adhere to surfaces that have been “profiled-by-corrosion”



MCU-Ecocleaner® Gel is an indispensable tool in areas that can't be abrasive blasted, or when faced with tight deadlines due to planned maintenance shutdowns

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