

Metal Oxides Removal Agent

Technical Datasheet

Description

MRA is a removal agent specifically developed for metal oxides, that are on the surface of the glass of solar modules.

It is a concentrated product designed to be delicate with the components of the solar module (ARC, silicone and aluminium frame), so that it is easy to use and does not present any risks for professionals. It is a remediation product, and it should be used as such. To avoid the reappearance of the problem, you should act preventively and protect the modules with an antistatic coating such as the *Antistatic Solar Armor* from ChemiTek.

Dilution Specifications

Adjust the dilution of the product according to the problem.

Do a test in a small area to check which dilution is best for your case. It is preferable to leave the product on the module longer than to use a lower dilution.

Start with a dilution of **1 to 10** (1kg of MRA in 10 litres of water) and check the behaviour. If it is not strong enough to start removing the metal oxides with ease, then reduce the dilution to **1 to 5**.

Applications

Removal of metal oxides, like rust (iron oxide) or aluminum oxide from the surface of the glass of solar modules.

Instructions of Use

1. Dilute the correct amount of product in the water.
2. Before starting to apply the product, please make sure that the modules are dry. Wet modules will greatly reduce the efficiency of the product. Spray the diluted product on the problematic areas making sure that all the surface is covered.
3. Brush the entire surface and let the product react with the metal oxides. Adjust the reaction time according to the severity of the contamination, without letting it dry.

4. Using a brush, rinse thoroughly with clean water making sure that all excess product and oxides are removed from the panel. If needed repeat the steps above until the desired results are achieved.

Recommended additional step:

5. Apply the antistatic coating immediately after the remediation of the problem to protect the modules.

Suppliers' recommendations

MRA is a remediation product and should be used as such. To avoid a recurring issue please act preventively and protect your modules with an antistatic coating. This will prevent the metal oxides from adhering directly on the glass thus making them easy to remove during future cleaning operations.

Comments

Please follow the instructions in the safety data sheet for the safe handling of the product.

Properties

Aspect: Colorless transparent liquid;
Odor: Characteristic;
Flash point: Non Flammable (>60 °C);
Solubility in water: Fully miscible.

Shelf life

Closed: 3 years
After opening: 6 months
After dilution: Use no later than 48 hours after dilution.

Packaging

2kg, 5kg and 20kg transparent drums and IBC (1000kg bulk packaging container).