



MILSPRAY®
Military Technologies

How it works:

Penetrate and Lubricate

After our MILSPRAY® Rustproofing Product is applied, you can expect it to lift and remove dirt, moisture, other contaminants, and even some surface rust.

It is designed to penetrate to the good metal and form its protection there. It will continue to penetrate to the good metal, pushing out existing corrosion.

MILSPRAY® Rustproofing Product also provides long term lubrication to working/moving parts such as hinges, rollers, nuts and bolts.

An inhibitor is any number of chemical compounds that temporarily stop the corrosion process. Different inhibitors protect different metals. The manner in which they are blended determines for how long the product will work.



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How it works:

Create an Active Molecular Film

Once our MILSPRAY® Rustproofing Product has reached the good metal, it sets up a bond. This bond is at a molecular level and the film is created is an ultra-thin film that provides long-term protection.

The inhibitors, meshed together in a chain link, are then used by the environment - contaminants, salts, etc... - before the metal is rusted.

Generally, one-year is the reapplication schedule but in more corrosive areas reapplication may be required after six-months.

MILSPRAY® Rustproofing provides long-lasting protection - even if it can't be seen! An Army Research Labs study noted that "despite the visual disappearance of the oil component... MILSPRAY® CPCs treatment appears to have a residual inhibiting effect."



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How it works:

Stop Electrolysis

There are four elements of the corrosion cell: anode, cathode, the electrolyte, and the external circuit. Remove one of these elements and you stop the corrosion process.

Electrolysis is the electric current that allows the flow of negative and positive ions between the anode and cathode. Electrolysis occurs when the external circuit is complete.

MILSPRAY® Rustproofing stops electrolysis by disallowing the external circuit to be completed.

MILSPRAY® Rustproofing is designed as a non-conductive material material that also has a voltage drop of only 1/100th of a volt. After securing the connections, it can be used on electrical connections to prevent the "greening" of wires.



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How it works:

Creep and Self-Heal

Corrosion typically starts in the cracks, seams, and crevices as this is where the majority of the metal-on-metal or dissimilar metal contact occurs and this is where those corrosive contaminants get trapped.

MILSPRAY® Rustproofing is designed to creep deep into these cracks and crevices and provide protection there as well. So even if the initial application cannot reach one of these areas, this self healing process makes sure the maximum protection is provided.

Try it for yourself: spray MILSPRAY® Rustproofing Product onto a piece of metal and note the amount applied with a marker. Come back 24-hours later and you will see it creep in all directions. Come back 24-hours after that and it will have crept even more!