



ARMOR SMARTY PAK™

Vapor Corrosion Inhibitor (VCI) and Desiccant

Frequently Asked Questions

How does the ARMOR SMARTY PAK™ work?

The ARMOR SMARTY PAK protects ferrous and non-ferrous metals from rust when packaged or enclosed using two different tactics. SMARTY PAKs are one-part ARMOR VCI Nanotechnology™ (our “secret formula” for vapor corrosion inhibitor), which emit corrosion-inhibiting vapors to prevent rust, and one-part specialty desiccant to adsorb moisture.

What is the proper application method for the SMARTY PAK?

For maximum effectiveness, SMARTY PAK and metal/metal parts must be contained or enclosed. Place SMARTY PAK in container near the metal/metal parts to be protected. Restrict air flow as much as possible and keep container sealed. SMARTY PAK will begin to work immediately, both adsorbing moisture and filling the enclosed space with VCI. If SMARTY PAK will be in direct contact with metal, testing is recommended as it may cause discoloration.

Can SMARTY PAKs be placed in direct contact with metal?

Before placing SMARTY PAK in direct contact with metal, testing is recommended as it may cause discoloration of the metal.

Does the SMARTY PAK require any special handling or precautions?

The SMARTY PAK is free of nitrites, silicones, phosphates and conforms to REACH and other global standards. As supplied, the SMARTY PAK is safe for handling but the use of gloves is recommended. Gloves protect metal/metal parts from the moisture, acids and oils found on hands that can both cause and accelerate the formation of rust.

What is the length of protection of the SMARTY PAK?

The ARMOR SMARTY PAK protects metal for up to 24 months. Variables such as how much airflow SMARTY PAKs are exposed to before use as well as the conditions of the container space, its size, and the frequency that it is opened, can decrease the SMARTY PAK's length of protection time.



Which metals will the SMARTY PAK protect?

Recommended for both ferrous and non-ferrous metals including steel, iron, copper, brass, aluminum, and nickel. Magnesium alloys and galvanized metals should be evaluated in the usual method of handling as there are many variations of these metals. If SMARTY PAK will be in direct contact with metal, testing is recommended as it may cause discoloration.

How many SMARTY PAKs do I need?

SMARTY PAKs are available in three sizes the NANO, the MINI and the QUAD and the amount of protection varies by application. Determining which size is needed is based on the size of the storage environment, the integrity of the container and the condition of the metal/metal parts.

When calculating the range of SMARTY PAK protection, take into consideration the packaging barrier properties and length of storage. Applications where the packaging barrier properties are excellent (i.e. foils, multi-layer films) and where shorter length of protection is required (approximately one year) can be satisfied using the higher range of protection designated by each pak. Applications where poor barrier properties and longer protection is needed should use the lower end of the coverage range.

| COVERAGE | PACKAGING |
|---|----------------------|
| NANO (1-4 cubic feet/ 0.02-0.11 cubic meters) | 900 per poly bag/box |
| MINI (4-10 cubic feet/ 0.11-.28 cubic meters) | 300 per poly bag/box |
| QUAD (10-35 cubic feet/ 0.28-99 cubic meters) | 75 per poly bag/box |

Can I combine the SMARTY PAK with other rust preventatives?

Yes, the SMARTY PAK can be used in combination with other ARMOR products such as ARMOR WRAP® VCI paper or ARMOR POLY® VCI film to further increase both barrier protection and VCI protection of metal/metal parts.

When metal/metal parts are removed from the SMARTY PAK environment, do they need any special treatment or cleaning?

The SMARTY PAK provides clean, dry metal protection – there is no cleaning, wiping or degreasing of metal parts required. When metal is removed from container, ARMOR's VCI protective layer immediately begins to dissipate – VCI does not interfere with the operation of electrical or mechanical components.



How do I dispose of SMARTY PAKs?

Similar to other commonly found items in manufacturing plants such as paints, disinfectants and oils, waste from this product may be listed and/or characterized as hazardous waste. The material can be disposed of by removal to a licensed landfill or by controlled incineration in accordance with local, state, and federal regulations. Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area.

How do I store SMARTY PAKs?

ARMOR packages the SMARTY PAK in a sealed bag to maintain its efficacy. Proper storage of the SMARTY PAK is essential to maximizing both its shelf life and effectiveness. Store SMARTY PAKs within an airtight, protective container to prevent water vapor contamination during movement, temporary storage, and final use.

SMARTY PAKs will begin to adsorb water vapor as soon as they are exposed to the air, so they must be protected at all times. ARMOR suggests that only those paks that will be used within a four-hour period be removed from their original packaging and storage container.

Always re-seal storage container as soon as possible and place in a cool, dry location – avoid exposure to high heat and/or direct sunlight. When packaged and stored properly, the shelf life of SMARTY PAKs is 24 months from date of shipment.

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