

Zerust® Axxaclean® 2048 Brush-On

CLEAN TECHNOLOGY THAT REMOVES RUST & TARNISH

PRODUCT INFORMATION

FEATURES

- Can be applied on vertical surfaces and under structures
- Quickly removes rust and tarnish
- Built-in rust inhibition
- No VOC's, CFC's, no silicones, or heavy metals
- Non-toxic and biodegradable
- Safe for all types of metals
- Compatible with rubbers and elastomers
- Compatible with painted surfaces
- Cleaned surface can be painted or welded
- Does not leave stain or gray or black carbon residues
- Easily removed

BENEFITS

- Saves time and rework
- Saves money
- Improves yields and productivity
- Reduces scrap and waste

Zerust®Axxaclean® 2048 rust remover is environmentally friendly, and is compatible with painted surfaces and welding

APPLICATION TYPE



Zerust® Axxaclean® 2048 Brush-On is a fast acting, economical, and environmentally safe rust and tarnish remover. It completely removes light to medium rust and tarnish in minutes*. Zerust®Axxaclean® 2048 can be used for all ferrous metals, brass, copper and various alloys. Cleaned parts are free of gray-black carbon residue. Heavily rusted parts damaged from the rust process may have surface roughness, but scale and rust will be gone.

How to Apply

Zerust® Axxaclean® 2048 Brush-On can be applied on large surfaces using regular clean paint brushes or rollers or clean cloth rags. Once applied and left in contact, the rust or tarnish is dissolved, usually in minutes*. Completing the full removal process is as simple as rinsing with water to remove the dissolved rust and tarnish, then drying the surface completely, including small crevices and gaps. The cleaned and dried surfaces can be machined, welded or painted without further post-treatment. Resulting weld and paint quality are much better than with the original untreated surfaces.

Corrosion Protection

Zerust® Axxaclean® 2048 has temporary rust-preventive chemistry built-in for immediate protection from flash-rust for up to 2 weeks of sheltered storage. For corrosion protection longer than 2 weeks or unsheltered parts, use Zerust® packaging films or Zerust® corrosion preventative coatings such as Z-Maxx™, Axxanol™ and Axxatec® products.

Properties

Zerust® Axxaclean® 2048 contains weak organic acid cleaning components to eliminate gray surface residues after rust removal. The solution has a mildly acidic pH of 2.5 which is a bit more acidic than lemonade and tomato juice, and less acidic than vinegar and cola soda. Spent rust remover is safe and non-toxic, containing only dilute concentrations of iron ions. It can be flushed down the drain, unless limited by local regulations or local waste water treatment facility.

Formulations

Zerust® Axxaclean® 2048 comes in multiple delivery forms: Spray-on, Immersion, Brush-on and Spray-Polish Kit.

APPLICATION EXAMPLES

REMOVE RUST WITH ZERUST® AXXACLEAN® 2048



Zerust® Axxaclean® 2048 marine application



RUST REMOVAL CAPABILITY

ORDERING INFORMATION

■ AVAILABILITY/PART NUMBER

Brush-on Version:

16 oz: 350-M-00016 PT

1 gal: 350-M-00016 GL

5 gal: 350-M-00016 PL

55 gal: 350-M-00016 DR

■ COVERAGE

186 ft² (17.3 m²) of 1 mil (25µm) rust removal per gallon.

Axxaclean® 2048 is ready to use without dilution.

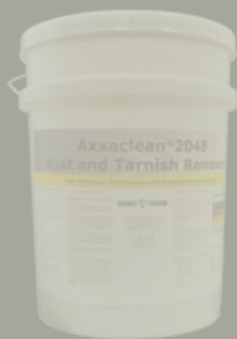
■ SHELF LIFE & HANDLING

Shelf life of 2 years if stored out of direct sunlight. Zerust® Axxaclean® 2048 may freeze as it contains water, but will remain fully functional when thawed to ambient temperature.

■ DISPOSAL

Separate residue from the spent Zerust® Axxaclean® 2048 solution and properly dispose of according to federal, state and local regulations. Spent or unused Zerust® Axxaclean® 2048 by itself may be disposed of down the drain and into the sewer.

Always consult federal, state and local regulations.



ZERUST® EXCOR®

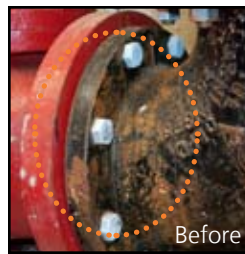
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ZERUST® AXACLEAN® 2048 BRUSH-ON VERSION PRODUCT INFORMATION

DIRECTIONS FOR USE:

BRUSH-ON APPLICATION PRODUCT

1. Use wire brush or high pressure water blast to remove loose scale if present.
2. Apply Zerust® Axxaclean® 2048 Brush-on to rusty surfaces with clean paint brush, paint roller (minimum 3/4" NAP), or clean cloth rags.
3. Begin with a test area to determine optimum time for corrosion to be removed; suggested initial trial about 5 minutes for light rust, 10-15 minutes for medium rust. Wipe or rinse off, best with pressurized water blast, and inspect. Repeat if necessary.
4. If more than an hour is needed for heavy rust, then check that the coating remains moist. If it becomes dry, rinse off, inspect and, if needed, reapply fresh Zerust® Axxaclean® 2048 Brush-on.
5. Blow dry or wipe with clean dry cloth to ensure no moisture is removed from all surfaces including crevices and cavities.
6. Parts can now be preserved from further corrosion with paint, or package the parts in Zerust® packaging products for shipment and/or storage, or use Zerust® surface coatings if the bare metal is to be exposed to outdoor elements for weeks or months (under shelter and normal ambient conditions).



PRODUCT PERFORMANCE COMPARISON:

Type of Rust Remover / Attribute	Strong Acid	Strong Alkali	Media Blast (grit, sand, glass)	Acid Conversion (paint primer)	Zerust® Axxaclean® 2048 (Brush-on Version)
Effectiveness of Rust Removal	Removes all rust	Removes all rust	Removes surface rust	Converts surface rust to paintable tannic acid iron complex	Removes all rust - even in cracks and crevices Metal is clean with up to 2 weeks rust protection
Speed* Depends on degree of rust	Light rust removed: < 1 hr Heavy rust: < 1 hr	Light rust: hour or more	Removal takes seconds to minutes after time of equipment set-up	Light rust removed: up to half-hour Heavy rust: must remove before conversion coating	Light rust: about 3 minutes Medium rust: up to 15 minutes Heavy rust: 30 minutes or more
Ease of Use	Soak parts at ambient temp	Soak in heated solution	Skilled labor to blast, and pressure wash to clean	Brush, spray or soak	Brush-on version with brush or roller Choose dip and Spray versions as appropriate
Harm to Metal Surfaces	Attacks soft metals and causes hydrogen embrittlement pH1 or less	Attacks soft metals and paint pH11 or more	Harms surfaces of soft metals and plastics, removes paint	Attacks soft metals	Safe for all metals, painted surfaces, gaskets, rubber, plastics pH about 2.5
Post Cleaning Action	Requires post rinse, then immediate corrosion protection	Requires post rinse, then in some cases, added corrosion protection	If not painted immediately, requires corrosion protection	Requires rinsing	Water rinse or wipe, then dry well
Flammability	Generates explosive hydrogen	Non-flammable	None	Depends on formulation	Non-flammable
Disposal	Must remove heavy metals, then neutralize prior to disposal	Must remove heavy metals, then neutralize prior to disposal	Landfill in most cases AFTER removal of paint & blast media	Landfill in most cases	Separate oil and metal contaminants, then rinse water and spent solution can be flushed down drain per local regulations Unused products can be flushed down drain per local regulations
Equipment Required	Proper ventilation	Proper ventilation	Blasting equipment	Brushes or sprayers	Brush-on version with brush or roller Or Plastic, glass or ceramic for dip version

Warranty and Disclaimer information

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