

CleanACT™ Product Data

ASSR

Acidic Stain and Scale Remover



ADVANCED
CHEMICAL
TECHNOLOGIES, Inc.

"Protecting the World's Infrastructure"

DESCRIPTION

CleanACT™ ASSR is a multi-functional product that addresses a number of surface preparation needs. It is a blend of hydrochloric acid, surfactants, and corrosion inhibitors. **Dilute with water.**

BENEFITS

- It is a highly effective de-scaler, quickly dissolving calcium carbonate scales.
- It is an excellent product to etch concrete prior to painting or patching. The acid will dissolve a thin layer of the surface for better adhesion.
- Mild odor, you do not have the offensive hydrochloric fumes associated with using straight acids.
- An excellent product to remove algae stains and discoloration, it will quickly break down and allow for the cleaning of these surfaces. Please note that there is no claim of killing algae—just removing the biomass where it grows. No algacidal claims are made!
- Easy to apply.
- When properly applied, this product is compatible with our SIL-ACT™ silane solutions.

TECHNICAL DATA

Physical Form	Liquid
Color	Clear
Odor	Mild
pH	< 0.1 at 1:9 dilution
Boiling Point	212°F
Freezing/Melting Point	< 32°F
Solubility In Water	Complete
Specific Gravity	1.16 at 20/20°C
Evaporation Rate	< 1.0 (Water = 1.0)

PACKAGING

1 case (4 -1 gallon containers)

5 gallon pails

55 gallon drums

ASSR is applicable for the substrates indicated			
Substrate	Surface Finish	CleanACT™ ASSR	
		Y/N	Coverage
Concrete	Brick	Yes	600-1,000 sq. ft/gal
	Tile	Yes	
	Precast Panels	Yes	
	Pavers	Yes	
	Cast-In-Place	Yes	
Architectural Concrete Block	Burnished	No	300-400 sq. ft/gal
	Smooth	Yes	
	Split-Faced	Yes	
	Ribbed	Yes	
Fired Clay	Brick	Yes	500-900 sq. ft/gal
	Tile	Yes	
	Terra Cotta	Yes	
	Pavers	Yes	
Marble, Tavertine, Limestone	Polished	No	N/A
	Unpolished	No	
Granite	Polished	No	600-1,200 sq. ft/gal
	Unpolished	Yes	
Sandstone	Unpolished	Yes	600-900 sq. ft/gal
Slate	Unpolished	Yes	600-1,100 sq. ft/gal

USE RESTRICTIONS

- You may have a residual amount of detergent appear after repeated applications. Product may negatively react with substrates such as colored bricks, stone, or tile containing manganese or other metallic additives.
- Polished or certain glazed surfaces may be damaged with use of this product.

WARNING: Clean™ ASSR is an acidic cleaner and as such may cause irritation to eyes or skin or result in respiratory problems if not handled properly.

FIRST AID:

If ingested do not induce vomiting, give plenty of water and get medical attention. If skin is exposed, flush with soap and water, get medical attention, remove and launder contaminated clothing. If eyes are exposed, flush with water for 15 minutes, get medical attention. Please refer to the MSDS for full safety and health procedures

APPLYING

Initial preparation: Take appropriate steps to protect humans, animals, vegetation, property, metal, vehicles, painted surfaces, and other nonmasonry materials from any splash, residue, wind drift, over-spray, or fumes that might occur when applying this product. This product in either liquid or vapor form may damage a variety of nonmasonry surfaces.

- When possible it is better to clean with this product before installation of nonmasonry items such as finished flooring, windows, doors, metal fixtures, hardware, roofing materials, etc.
- Excess mortar or grout left on the surface longer than 24 days may result in difficult clean up. Always protect structures under construction from moisture.
- Always test (in an area not generally seen) for each type of surface. Let test area dry 3 to 7 days before looking at results.
- Allow 28 days after installation of new brick or masonry surfaces, before cleaning.
- All caulking and sealant materials should be in place and thoroughly cured before cleaning.
- Use cleaner when ambient and surface temperatures are at or above 40°F (4°C). Do not apply to frozen or freezing surfaces.
- Use coverage rate as 50 square feet per gallon for porous, textured surfaces and 100 to 150 square feet per gallon for dense, smooth surfaces.

- Dilute one part of the product with 4 to 12 parts clean COLD water (never use hot water). Mix in polypropylene buckets only (acidic materials and fumes attack metal). Measure water first, and then add ASSR while stirring

NOTE: Always test a non-visible area to ensure that product is compatible with substrate.

WORKING FROM BOTTOM TO TOP

1. Thoroughly wet a large area with fresh water.
2. Apply with low-pressure sprayer (not over 50 psi maximum) for masonry-washing
3. Leave product on surface for 3 to 5 minutes (do not let cleaner dry into substrate).
4. Rinse with a sufficient amount of tap water to flush cleaner and dissolve unwanted sediments from surface.
5. Use low-pressure sprayer or masonry-washing brush.
Caution: use of too much pressure (> 50 psi) or too small of spray tip (< 15°) may result in damage to the surface.
6. If necessary, reapply cleaner and repeat previous steps. Scrape off heavy excess mortar using wooden scraper, taking care not to harm surface.

DISCOLORATIONS

Many of the decorative bricks in use contain metallic oxides. Stains may form on the masonry surface when vanadium, manganese or other oxides migrate to the surface. Where significant levels of metallic oxides are present an improper dilution of Clean™ ASSR can contribute to staining.

- If the brick shows metallic staining before or after testing, follow these additional steps:
- Little or some staining: test using a dilution rate of 8 parts water to 1 part concentrate. Rinse with water and let weather for 10 to 14 days.
- If results are acceptable, clean using this dilution rate. When cleaning is done, let the wall weather. Spot treat minor stains that have not weathered.
- If severe stains are apparent before original testing or become a problem at any time during the testing, consider using another Clean™ product.

FACTORY ASSISTANCE

Factory personnel are available for product, environment and job-safety assistance with no obligation.

Call 800-535-0433 and ask for Customer Care - technical support.

Factory-trained representatives are established in principal cities throughout the continental United States.

Call Customer Care at 800-535-0433 for the name of the ACT representative in your area.

