

AcidSafeGel

SYNTHETIC ACID REPLACEMENT

PERFORMANCE
INNOVATION
SAFETY **rezisafe**
A REZITECH DIVISION

Summary

Acid Safe Gel is a unique and powerful, non-toxic acid replacement product. Patented technology has been used to create Syntech, the world's only synthetic acid formulation. Acid Safe Gel is used by companies as a direct replacement for toxic products such as hydrochloric acid, urea hydrochloride, glycolic acid and other harsh acids.

The thicker gel texture of this product enables it to be applied and stick to vertical substrates, unlike traditional acids. Burns to skin or fumes from typical mineral acids are also absent during the application.

Acid Safe Gel has proven to be extremely effective for removing even the toughest of materials. The product is extremely effective for the stripping of concrete in applications such as mining, shotcrete and ready mix. It is also very effective for the removal of rust across many industries.

Application

Acid Safe Gel can be used straight or diluted and sprayed or mopped onto the surface and allow to dwell for 5 to 10 minutes. In some cases, scrubbing with a stiff bristle broom will help release thick deposits.

Acid Safe Gel can be applied and left to react with tougher materials for longer periods of time.

Rinse off with water or remove with high pressure water using a gurney.

Benefits

- Safe on skin
- Non-hazardous
- Non fuming
- Stays wet for up to 6 hours
- Clings to vertical surfaces
- Can be sprayed
- Dilutable with water
- Will not damage painted surfaces, electrical systems, glass, rubber, seals etc.
- Powerful descaling power
- Safe on painted surfaces

Common uses

- Ready Mix Concrete
- Shotcrete
- Etching
- Rust Removal
- Lime scum
- Aluminium cleaning
- Cleaning concrete
- Pavers
- Concrete moulds
- Formwork
- Cement mixers

Technical Data

NITRATE LEVEL:	None
SHIPPER REGULATIONS:	Non-DG
FORM:	Clear, light gel
FLASH POINT:	None
ODOUR:	Mild Soapy Odour
BOILING POINT:	100°C
SOLUBILITY IN WATER:	100%
DETERGENCY:	Moderate
BIODEGRADABLE:	Yes 100%
TOXICITY:	Non-toxic
VOLATILE BY VOLUME:	N/A
WETTING ABILITY:	Excellent
CARCINOGENS:	None
STORAGE STABILITY:	2 Years

DISSOLVING PROPERTIES

Calcium Oxide Dissolving Properties with 3 Minute Exposure shows Acid Safe Gel is more powerful than Hydrochloric Acid.

ACID % DISSOLVED

Acid Safe Gel	9.8
Hydrochloric Acid	8.9
Sulphamic Acid	1.6
Formic Acid	0.7
Oxalic Acid	0.0
Malic Acid	0.4

TEST CONDITIONS

200 grams of 5% active solution; 1 Calcium Oxide Cube;
3 Minutes @ 21° C

Acid Safe Gel out performs other acids when it comes to dissolving calcium oxide, including HCl which is highly corrosive.



METAL TEST LIMITS:

D.O.T. Classifies a material to be CORROSIVE if it has a corrosion rate that exceeds 6.25 mmpy on SAE C1020 carbon steel.
Results of Acid Safe Gel: SAE 1020 carbon steel = 0.59 mmpy
Conclusion: Acid Safe Gel is NON-CORROSIVE

ADDITIONAL STUDIES & RESULTS:

When tested, Acid Safe Gel showed no potential for the generation of Carbon Dioxide under NIOSH 7903, OSHA & ACGIH testing protocols governing workplace environments.
EPA Design for Environment Recognized for Safer Chemistry
www.epa.gov/dfe