degussa.
creating essentials

Product Information

Internet:
www.protectosil.com
E-mail:
protectosil@degussa.com

Degussa GmbH
Aerosil & Silanes

Weissfrauenstraße 9
D-60287 Frankfurt am Main
Germany

Phone: +49-69-218-5656
Fax: +49-69-218-3496

Degussa Corporation
Aerosil & Silanes
379 Interpace Parkway
P.O. Box 677
Parsippany
NJ 07054-0677
USA

Phone:
800-828-0919 (Toll Free)
+1-973-541-8506
Fax: +1-973-541-8503

Degussa (China) Co., Ltd.
Aerosil & Silanes
55, Chundong Road
Xinzhuang Industry Park
Shanghai 201108
P.R. China

Phone: +86-21-6119-1052
Fax: +86-21-6119-1075

Protectosil®

Protectosil® CHEM-TRETE® 40 VOC

High performance water repellent for concrete, masonry and stone. Available only in North America.

Chemical Formula

>55 % Isobutyltrialkoxy silane in ethanol.

Description

A clear, penetrating, breathable water repellent for use on exterior, above-grade concrete, brick, concrete masonry units, and some natural stones. Prevents water and water-borne contaminants from entering the substrate and causing premature deterioration.

Technical data

Property	Value	Unit	Method
color	water white	-	
active ingredient	alkylalkoxysilane	-	
active content	> 40	% by weight	
solvent	denatured ethyl alcohol	-	
flash point	54	° F	
density	7.0	lbs./gal.	
VOC	max. 600	g/liter	

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.
® = registered trademark

Internet:
www.protectosil.com
E-mail:
protectosil@degussa.com

Degussa GmbH
Aerosil & Silanes

Weissfrauenstraße 9
D-60287 Frankfurt am Main
Germany

Phone: +49-69-218-5656
Fax: +49-69-218-3496

Degussa Corporation
Aerosil & Silanes
379 Interpace Parkway
P.O. Box 677
Parsippany
NJ 07054-0677
USA

Phone:
800-828-0919 (Toll Free)
+1-973-541-8506
Fax: +1-973-541-8503

Degussa (China) Co., Ltd.
Aerosil & Silanes
55, Chundong Road
Xinzhuang Industry Park
Shanghai 201108
P.R. China

Phone: +86-21-6119-1052
Fax: +86-21-6119-1075

Protectosil®

Reactivity

Protectosil® CHEM-TRETE® 40 VOC penetrates into the substrate and chemically bonds with it resulting in permanent attachment of the water-repellent molecule. Protectosil® CHEM-TRETE® 40 VOC is not a coating and will not change the surface appearance of the substrate in any way.

Applications

Protectosil® CHEM-TRETE® 40 VOC reduces the amount of water entering the substrate as well as water-borne contaminants that can cause premature deterioration. Protectosil® CHEM-TRETE® 40 VOC may be used to

- impart water repellency to a substrate for an extended time
- protect brick masonry against the ingress of wind-driven rain
- protect the reinforcing steel in concrete from corrosion due to water, deicing salts, and other water-borne chemicals
- reduce scaling of concrete pavement on highways and airport runways due to deicer chemicals
- reduce the effects of mildew, efflorescence, and stains on vertical concrete and masonry surfaces

Benefits of Protectosil® CHEM-TRETE® 40 VOC include:

- excellent resistance to water intrusion
- excellent resistance to chloride ion ingress
- high resistance to wind-driven rain
- breathable system
- deep penetration into the substrate
- no masking of windows necessary
- no blushing, peeling or yellowing
- high resistance to alkali attack
- reduced efflorescence
- no change in surface appearance

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.
® = registered trademark

Internet:
www.protectosil.com
E-mail:
protectosil@degussa.com

Degussa GmbH
Aerosil & Silanes

Weissfrauenstraße 9
D-60287 Frankfurt am Main
Germany

Phone: +49-69-218-5656
Fax: +49-69-218-3496

Degussa Corporation
Aerosil & Silanes
379 Interpace Parkway
P.O. Box 677
Parsippany
NJ 07054-0677
USA

Phone:
800-828-0919 (Toll Free)
+1-973-541-8506
Fax: +1-973-541-8503

Degussa (China) Co., Ltd.
Aerosil & Silanes
55, Chundong Road
Xinzhuang Industry Park
Shanghai 201108
P.R. China

Phone: +86-21-6119-1052
Fax: +86-21-6119-1075

Protectosil®

Processing

Concrete must be cured for a minimum of 28 days. Surfaces to be treated must be clean and dry. Protectosil® CHEM-TRETE® 40 VOC may be applied with brush, roller or sprayer. Coverage rates depend on the nature of the surface to be treated. For more detailed information on how to apply Protectosil® CHEM-TRETE® 40 VOC , please contact your local sales representative by calling (800) 828-0919.

Registration

EINECS/ELINCS (EU):	not listed
AICS (Australia):	listed
DSL/NDSL (Canada):	listed
PICCS (Phillipines):	listed
TSCA (USA):	listed
IECS (P.R. China):	listed
ENCS (Japan):	not listed
ECL (South Korea):	listed

Safety and Handling

Before considering the use of any chemical, read its Material Safety Data Sheet (MSDS) thoroughly for safety and toxicological data, as well as for information on proper transportation, storage and use. The MSDS is available for download at http://www.protectosil.com or by calling our toll free number at (800) 828-0919.

Packaging and Storage

Protectosil® CHEM-TRETE® 40 VOC containers should be kept closed when not in use and should be stored at temperatures between 0 °F and 120 °F, away from rain or standing water.

Protectosil® CHEM-TRETE® 40 VOC-EN-2007-08

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.
® = registered trademark