

# CONSOLID DRY

Ethyl silicates solvent-based consolidating agent for porous stones and concrete

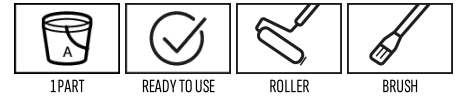


## TECHNICAL FEATURES



## FIELD OF APPLICATION

## APPLICATIONS



## Description

CONSOLID DRY is a solvent-based liquid single-component consolidating agent that penetrates deeply into the support. CONSOLID DRY is formulated with partially hydrolysed polyethyl silicates (including TEOS) that polymerise by reacting with the atmospheric humidity (moisture-hardening). CONSOLID DRY when applied to natural stone or concrete structures (in several consecutive coats wet-on-wet), penetrates deeply into the pores (capillaries) and reacts chemically, changing into silica gel. The silica gel produced in this way consolidates the material, acting as a binder.

## Field of application

CONSOLID DRY is used as an impregnating agent to consolidate any type of absorbent building material with medium/high porosity, for example:

- Natural stones.
- Concrete.
- Reconstituted stones.

CONSOLID DRY has been specially designed for the treatment of artistic assets against degradation caused by time and atmospheric agents.

## Advantages

- Once the cross-linking reaction is complete, CONSOLID DRY changes into a natural binder capable of recreating the natural compactness and cohesion of the treated material (stone and concrete) without any synthetic products.
- CONSOLID DRY does not alter the aesthetic appearance of the surfaces on which it has been applied.

## General preparation of the laying surface

For the application of CONSOLID DRY to be effective from all points of view it is necessary:

- Cleaning the surface as gently as possible (use DESMOG A or other methods, e.g. compresses). Physical pressure methods (water washing, scarifying, sandblasting) are not suitable because they may damage the aesthetic layers.
- For heavily deteriorated materials with a very brittle surface, apply a "preventive" coat of CONSOLID DRY at least 2 – 3 days before starting washing. The purpose of this coat is to prevent surface crumbling.
- Checking that the surface to be treated is dry and absorbent.
- Applying at temperatures between +15 and +25 °C and with low atmospheric humidity (maximum 50%RH).
- Installing an effective physical protection for at least 2 days, to prevent the sun or rain from acting on the treated material.

## Product preparation

- CONSOLID DRY is ready to use.

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Do not dilute the product unless absolutely necessary i.e. when the porosity of the layer to be consolidated is particularly low.

For dilution use only anhydrous mineral white spirit.

- Shake the product before picking.

## Product application

### ► Principles

An application can be considered successful when CONSOLID DRY penetrates very deeply, at least to where the material is solid and consistent.

Conversely, incorrect application leads to the accumulation of CONSOLID DRY just below the surface, resulting in a potentially harmful localized hardening of the material.

Since the variety of materials is so wide, it is not possible to predict a specific use case for CONSOLID DRY and the only effective way is to proceed with preventive tests on a small portion of the material to be treated.

### ► Preventive checks

Check in advance in one or more small areas (about 0.5 m<sup>2</sup>) for any unforeseeable incompatibilities. In general, high concentrations of inorganic salts can generate white efflorescence.

### ► Operation

- The product can be applied by:

- low-pressure watering;
- brush or roller;
- direct immersion;
- swab.

- To achieve deep penetration, it is necessary to apply several coats of CONSOLID DRY, "wet-on-wet".
- Wait two weeks after the first treatment to allow the active substance to fully cure (silica gel formation).
- If necessary, perform a second treatment.

NOTE: Any colour changes towards grey or the formation of a shiny film on the surface indicate an excess of product which must be removed promptly using anhydrous mineral spirits.

### ► Post-CONSOLID DRY treatments

After about 3 weeks from the application of the last coat of CONSOLID DRY, one (or more) of the following treatments can be performed:

- NORDRY 200 P (solvent-based siloxane water repellent, see Technical Data Sheet);
- Anti-graffiti treatment with ANTIGRAFFITI (water-based hybrid water/oil repellent, see Technical Data Sheet);
- Painting with RIVENORD SILAC (waterproof siloxane paint with very high breathability, see Technical Data Sheet).

## Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
	0,5	2,5	L/m <sup>2</sup>	(1)

(1) It is advisable to determine the consumption on a sample area before calculating the order quantity.

## Tool cleaning

- Fresh product: cleaning with white spirit or isoparaffin solvent.
- Hardened product: mechanical removal.

## Useful tips for laying

- Be careful not to drip the product on surfaces other than the one to be treated.

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- Read the Safety Data Sheet carefully before use.

## Technical Data

► PRODUCT IDENTIFICATION DATA	u.m.	value
Density at 23°C, EN ISO 2811-1	kg/L	0,96 ± 0,05
Kinematic viscosity (cup 3 ISO, 23°C), EN ISO 2431	s	55 ± 5
Active substance content	-	(68 ± 1)%
Silica content	-	(29 ± 1)%
Appearance	-	Transparent liquid
Odor	-	Solvent

## Product storage

- 18 months in the original closed packaging, in a dry, covered environment, protected from sunlight and at a temperature between +4°C and +30°C.
- Keep in a dry place.

## Packaging

VARIANT	PACKAGE	ADR	PACKAGE / PALLET	COMPONENTS	NOTES
-	12 x 1L cans	P*	32 boxes		-
-	4 x 5 L cans	P*	18 boxes		-

### ADR legend:

NO = NON-DANGEROUS goods

P\* = DANGEROUS goods packed in limited quantities (packed as per ADR Chapter 3.4)

Si = DANGEROUS Goods

## LEGAL NOTES

Any advice concerning the methods of use of our products reflects the current state of knowledge and does not imply any guarantee and/or responsibility as to the outcome of the application. Consequently, the customer must verify the product's suitability for the intended use and purposes by testing the product in advance. The Internet website [www.nordresine.com](http://www.nordresine.com) contains the latest revision of this technical sheet: in case of any doubts, verify the date of revision (where missing, use the date of issue) by consulting the "PRODUCTS" section.

## EDITION

Issue: 05.04.2003

Revision: 05.12.2025