

DURAGARD

LITHIUM SILICATE-BASED
CONSOLIDATING AND WATERPROOFING
TREATMENT FOR CONCRETE



DESCRIPTION

DURAGARD® is a lithium silicate-based consolidating and waterproofing treatment for concrete. Thanks to next-generation lithium silicate technology, it ensures excellent protection against wear, chemical attack, de-icing salts, efflorescence, dusting, incrustations, and ASR (alkali-silica reaction). It penetrates up to 40 mm into the substrate, forming a highly resistant cortical layer. Effective against both positive and negative hydrostatic pressures.

FIELDS OF APPLICATION

- Old and new concrete floors
- Multi-storey car parks
- Industrial flooring
- Sidewalks
- Retaining walls
- Bridges, viaducts, and overpasses
- Support elements for guardrails
- Storage floors for salt and de-icing agents
- Agricultural buildings
- Concrete walls and pillars
- Water treatment structures
- Wastewater tanks

PRODUCT DATAS

Base	Water
Component	Mono-component
Composition	Lithium silicates
Appearance	Liquid
Specific weight	1.1 kg/L
Dry residue	28%
Color	Transparent (pigmentable upon request)

CONSUMPTION

0.25–0.40 L/m² applied in two coats. Consumption depends on porosity, humidity, temperature, and application method.

Parameter	Result	Standard
pH	11	-
Minimum penetration time	30 minutes	-
Polymerisation	> 30 days (walkable after a few hours)	-
Carbonation resistance	Total	UNI 9944
Potable-water contact	Suitable	D.M. 21-03-73
Negative pressure resistance	1 MPa (~10 ATM)	EN 1504-9
Freeze-thaw resistance	> 300 cycles	UNI 7087-72



Date 15/10/2025



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APPLICATION

SUBSTRATE PREPARATION

The substrate must be clean, dry, compact, and free of contaminants (oil, grease, dust, paint, efflorescence, moss). Existing concrete must be prepared mechanically by shot-blasting, grinding, scarifying, or equivalent. If the surface is excessively dry, pre-dampen the day before application. New concrete must be free of curing agents, anti-evaporation films, oils, or substances that may hinder penetration.

PRODUCT PREPARATION

Ready-to-use mono-component product. Stir with a low-speed mixer before application to ensure homogeneity.

PRODUCT APPLICATION

Apply using brush, roller, or low-pressure sprayer. For deep consolidation, inject at low pressure from bottom to top using manual or electric pumps. Application must be repeated until saturation ('to refusal'). Remove excess product with absorbent packs after application. Protect surfaces from rain for at least 3 days.

CLEANING EQUIPMENT

Clean tools immediately after use with water. Hardened product can only be removed mechanically.

WARNINGS

- Do not apply below +5°C
- Do not dilute with water or non-suitable solvents
- Avoid direct sunlight during application
- Remove excess material within one hour
- Pre-dampen old substrates the day before application

HEALTH AND SAFETY

Refer to the latest Safety Data Sheet for instructions on handling, storage and disposal. Do not release product or empty containers into the environment.

For PROFESSIONAL USE ONLY.

LEGAL NOTICE

The information and recommendations given above, although they correspond to our best experience, must in any case be considered purely indicative and must be confirmed by exhaustive practical applications. Therefore, before using the product, anyone who intends to make use of it must determine whether it is or is not suitable for the intended application and, in any case, assumes all responsibility that may arise from its use. Always refer to the latest updated version of the technical data sheet, available on the website btechitalia.eu.

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