

DURAGARD

PROTECTIVE WATERPROOFING FOR
CONCRETE PAVEMENTS



DESCRIPTION:

DURAGARD® is a treatment based on lithium silicate to waterproof and protect every work and artifact in concrete. Thanks to the latest generation technology of lithium silicates, it ensures high performance in protecting concrete against wear, degradation caused by chemical attacks and de-icing agents, dust, sweating, efflorescence, incrustations, ASR (alkali-silica reaction), etc. Duragard is capable of penetrating up to 40mm into the substrate, providing waterproofing capabilities and extremely high resistance, creating a cortical state with unparalleled characteristics. Duragard is effective in situations of positive and negative hydro-hygrostatic pressures.

FIELDS OF APPLICATION

- Old and new concrete pavements
- Multi-storey car parks
- Industrial floors
- Sidewalks
- Retaining walls
- Bridges
- Viaducts
- Overpasses
- Support bases for bridge edge barriers
- Floors for storage of salt or de-icing agents
- Agricultural structures and deposits
- Concrete walls and pillars
- Wastewater treatment plants
- Sewage tanks

CHARACTERISTICS:

Base	Water
Catalysis ratio	Monocomponente
Mixing ratio	-
Composition	Sodium silicates
Appearance	Liquid
Specific gravity	1,1 kg/l
Dry residue Dilution	28,0%
Pot Life	-

CONSUMPTION

0.25 - 0.4 lt/m² (applied in two layers) This consumption is based on an application on a smooth surface in excellent condition. Factors such as an extremely porous surface, temperature, humidity level, and application methods can alter the product consumption.

COLORS

Duragard is available in color:

- Transparent (pigmentation of the product is possible upon request)

Date of issue: 15/10/2024

DURAGARD



PACKAGING

DURAGARD is available in packages of:

- 5,0 lt
- 20,0 lt
- 250 lt
- 1000 lt

TECHNICAL DATA

pH	11	-
Minimum time to full penetration	30 minutes	-
Cure time	> 30 days (serviceable after a few hours)	-
Carbonation	Total resistance	UNI 9944
Food-grade water contact	Suitable	D.M. 21-03-73
Resistance in negative buoyancy	1 MPa (approx. 10 ATM)	EN 1504-9
Resistance freeze/thaw cycles	> 300 cycles	UNI 7087 - 72

APPLICATION METHODS SUPPORT PREPARATION

Preparation of the support is essential for an excellent result and long life. The substrate must be perfectly dry, clean, compact, cohesive and free of all contamination (dirt, dust, grease, oils, paints, salt efflorescence, moss, vegetation, etc.) that can in any way affect the penetration of the product.

- **Existing concrete substrates:** surfaces should be adequately prepared by sandblasting, shot peening, mechanical milling, bush-hammering or other method to be evaluated on a case-by-case basis. If the surface is found to be excessively dry, it is advisable to rewet the surface the day before application.
- **New CLS substrates:** new concrete surfaces that have been sanded or finished with mineral hardener dusting must be solid, perfectly clean, dry, and free of dust, film-forming anti-evaporating agents, grease/oils or other substances that may hinder product penetration.

PRODUCT PREPARATION

Ready-to-use one-component product.

Mixing not necessary, but it is still recommended to mix the contents of the container, using a drill at low revolutions, to obtain perfect homogeneity of the product.

STORAGE

The product should be stored in its original, undamaged, closed and sealed packaging in a dry place away from heat sources, at a temperature between +5° C and +25° C for up to 12 months. Also refer to the storage recommendations on the MSDS and label on the package.

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EQUIPMENT CLEANING

Clean all tools and equipment immediately after use with water.

WARNINGS

- Do not apply the product at temperatures below 5° C;
- Do not dilute the product with water;
- Do not dilute the product with unsuitable solvents;
- Avoid contact with direct sunlight during application;
- Excess product should be removed within one hour of application;
- If the surface to be treated is of old construction bag the surface the day before application;

SAFETY MEASURES

For information and advice on safety regulations and for the use and storage of chemicals, the user should refer to the most recent Material Safety Data Sheet, containing physical, toxicological and other related data on safety. Do not disperse the product and empty containers into the environment.

Product for PROFESSIONAL USE.

LEGAL NOTES

The above information and prescriptions, although corresponding to our best experience, are to be considered, in any case, purely indicative and will have to be confirmed by exhaustive practical applications; therefore, before using the product, whoever intends to make use of it is obliged to establish whether or not it is suitable for the intended use, and in any case, assumes any responsibility that may arise from its use.

Always refer to the latest updated version of the data sheet, available at btechitalia.eu

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