



Surface Chemical Hardener

Reisformula® - Lítium

PRODUCT

Reisformula®- Lítium is a chemical hardener of high technology based on lithium silicate, to be applied on concrete floors.

Reisformula®- Lítium was developed through the concept of nanotechnology, a technique that permits the division or creation of microscopic particles, which will make the chemical reaction on the treated surface. Reis formula—Lítium penetrates as far as 1/4 of inch (7mm) into the concrete pores, reacting with its free lime, producing a three-insoluble calcium silicate turning the surface of the concrete harder, denser and resistant to abrasion, preserving and lengthening the materials work time.

Reisformula®- Lítium seals reducing permeability, leaving the treated surface smooth and free of dust originated from constant traffic.

Reisformula®- Lítium can be applied on new, old and just finished floors. When applied it acquires a shininess similar to marble. The treated surface will increase its brightness if a routine of cleanness occurs. It is also recommended for concrete polishing process (consult information)

APPLICATIONS

Intern or extern floors of any ages
 Industrial concrete floor
 Warehouses with intense traffics
 Supermarket floors and parking lot
 Airplane hangars
 Building basements
 Chip floors
 Automobile industries as well as electro-electronics, textiles etc...

BENEFITS

Mirror aspect (vitrified);
 Increases resistance to abrasion in 47%;
 Reduction of permeability;
 Permanent sealing thus easing cleanliness;
 Better reflection of illumination;
 Armored plated surfaces and also extremely hard and abrasion resistant;
 Reduce the porosity, leaving the floor dustless;
 Improves the aspect of the floor;
 Does not scratch or delaminate;
 Does not emit volatile gasses (VOC);
 Traffic liberation in 1 to 2 hours.

EQUIPMENT FOR APPLICATION

Low pressure pump, painting roller either of foam or short wool.

PRODUCT APPLICATION

The product shall be applied by trained professionals. On new floors wait 7 days (cement CP III and CP IV) this period is necessary to occur its reaction with the calcium hydroxide. Just finished floors — Cements CP II and CP V: can be applied immediately after the joint cuts. The floor shall be totally clean and exempt of concrete muddy.

CURED FLOORS

It shall be washed with clean water to remove dusts. Should it be contaminated with grease or oil, then a neuter Ph degreased has to be used no matter how many times it's necessary until the surface is

totally clean. Floor with chemical cure or painted, must be removed mechanically.

APPLICATION METHOD

Smooth/polished floor: With a low pressure pump spray **Reisformula®- Lítium** on the surface of the floor spreading it with a painting roller for a period of 30 minutes, until a vitrified layer is formed.

Note: In the event of the disappearance of the product (sponge effect) that doesn't mean the product was not applied well. This occurs because the high porosity of the concrete or the time of application was not enough, in this case, repeat the application process all over again until a vitrified layer is formed.

CLEANING THE TOOLS

Wash with clean water until completely free of residue of the material. **CAUTION:** Avoid contact of **Reisformula®- Lítium** with glass and fabrics.

PHYSICAL FEATURES

CHARACTERISTICS	RESULTS
Appearance / Odor	Colorless and odorless liquid
Solvent rate	Non – existent
Flame point	Non – existent
Flamability Limits	Non – existent
Gas emission	Non – existent
Density	1.11
Solid rates	16%
VOC rate	< 25 g/liter
Freezen point	- 5°C

CHARACTERISTICS AND PERFORMANCE

Chemical composition	Lítium silicate
Rate of actives	100% solids
Physical states	Viscous liquid
Containers	200 and 50 LT Drums
Yield	6 to 12 m ² per liter
Drying	1 to 2 hours

GUARANTY

The surface must be sealed, hard and sound loosing no powder. The product does not assure the structural part of the floor but only the superficial layer.

CLEANLINESS AND SAFETY

Users must use safety glasses and rubber gloves. Direct contact with the skin should be avoided (can cause irritation). In case of contact with the skin or eyes, wash immediately with abundant water and consult a doctor and inform the type of product. Keep out of the reach of children and animals and sources of heat.

STORAGE

Reisformula®- Lítium should be stored in a dry location, covered and ventilated at 25°C (77°F).

VALIDITY

2 years in its original package

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Our technical advice concerning the application of the product is made verbally, in writing and through demonstration depending on the interest of the customer.

It should be noted that the application of the product is a precision process and when it is not applied by Reis e Reis, the company disclaims any responsibility; therefore, the responsibility is that of the customer. Regarding the storage and use of the product, any resulting change in its properties will be the complete responsibility of the customer.

The liability of Reis e Reis will be limited to any damage or loss in value of the goods supplied by the company and used by the customer. We guarantee the unquestionable quality of our products in accordance with our terms of sale and supply.