

-  RESIN FLOORS
-  PAVIMENTI IN RESINA
-  SOLS EN RÉSINE
-  POSADZKI ŻYWIJCZNE - DEKORACYJNE I PRZEMYSŁOWE



Q-SMALTO

Water based coloured epoxide two component covering

Description

Q-SMALTO a **water based** product made of two components, formed by:

component A: mix of pre-polymer epoxide liquids and additives;

component B: amine of co-polymerisation, pigments and water based additives

After drying Q-SMALTO forms an opaque film which is impermeable to water and oils but not to water vapour.

It has an excellent adhesion to concrete substrates **even if wet or cast only 12-24 hours previously;** and is also resistant to chemicals.

Q-SMALTO is available in standard grey (RAL 7040) but can be ordered in many other colours.

Range of use

Q-SMALTO is used ideally as a **protective, coloured, anti-dust, anti-oil and anti-evaporation material** for industrial floors finished with quartz, to be applied within 24 hours after the cast, for

- garages;
- food warehouses;
- deposits of all types;
- light industry etc.

It can also be used to create protective coverings in general for concrete surfaces. In particular it can be used to waterproof tanks for the treatment of sewage and white water (drainage canals).

Application

Preparation of the surface

The substrate must be carefully examined to ensure that it is a base suitable for the cycles of the chosen applications.

Depending on the condition of the substrate it is necessary to choose the preparatory treatment to be used:

1. on **freshly cast cls**, immediately after the mechanical floating phase (generally 12÷24 hours after the cast), check the permeability of the surface (which might have been compromised by the presence of hydro-repellent substances in the consolidation and surface hardening treatments) by pouring a glass of water onto it. In order to ensure a perfect adhesion of Q-SMALTO, if the water is absorbed, it is sufficient to apply a coat of Q-PRIMER diluted in water (1.8 parts in weight of product (A+B) with 4 parts water). Q-SMALTO can be applied on top of Q-PRIMER after 2÷6 hours depending on the temperature.

If the water is not absorbed first carry out:

- A sanding with an HTC sander or similar, or
- wash with acid using undiluted NORDECAL FORTE sprayed at low pressure onto the surface and brushed with a carbon-fibre or nylon padded buffer; then aspirate the liquid and rinse.

Then proceed to the primer phase using Q-PRIMER following the indications above.

2. On newly matured cls proceed as at para. 1.
3. On **old cls surfaces** clean carefully using products suitable for the elimination of anything which might inhibit the adhesion and penetration of the product (grease, oil, varnish etc.). Normally a wash with STRIPPER and a mechanical brushing, followed by an abundant rinsing and aspiration of the washing liquid is sufficient. In the event of pollution of the cls by oil, old glue or varnish, rust, mould etc. a sand-blasting should be done using a marble sander of the HTC type. Then proceed to the primer phase using Q-PRIMER as at para. 1.
4. With old floors where there are holes, the hollows and the unevenness of the surface which are deeper than 5 mm should be filled with GROVE RAPIDO or GROVE COLABILE: Those less than 5 mm with W3.
5. **Old floors with problems of low pressure resistance and a noticeable porosity** should be strengthened by soaking with one or two coats of NORPHEN SW SOLID diluted between 4 and 7 times with water (the dilution depends on the absorption of the substrate) or with Q-PRIMER applied as a primer (diluting as described in the technical notes). Now proceed as at para. 2.



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Dampness in the substrates

There are no limits in the residual humidity which restrict the casting of Q SMALTO.

Preparation of the product

Like all covering products based on amine epoxides Q-SMALTO should be prepared in a container of a size which takes into account the pot life of the product (90 minutes at normal temperatures).

Mixing

Pour Q-SMALTO comp. B onto comp. A and mix well with a professional blender at low speed.

The blade of the mixer should be suitable for the size of the container (for example, a 15÷20 litre pail uses a blade of approx. 12÷15 cm in diameter).

It is advisable to dilute the product (A+B), already mixed, with 5% in weight of water before application.

Application of the product

Apply with a roller, paint brush or spray in one or more coats divided by a day between coats until the projected thickness is reached.

Utilisation

In order to complete a covering 0.15÷0.20 mm thick apply from 0.25 to 0.30 kg/m² of product (A+B), depending on the absorption of the substrate.

Warnings and special instructions

- 60 minutes after the end of the mixing of the two components A and B interrupt the application.
- Do not use at temperatures less than +5°C.
- Mix components A and B in the ratio indicated on the packaging. The use of part of the product of the bag means that the operator must amalgamate the two components in the containers before use and to carefully weigh the part removed according to the weight ratio indicated on the label.
- Read the Safety Notes.

Features

mass volume, UNI 8310	g/cm ³	1.47 ± 0.05
pot-life, UNI EN ISO 9514	mins	90 ± 10
Surface drying time, UNI 8904	Hours	6 ± 1
Setting time	days	> 7
Adhesion to cls, UNI EN 24624	N/mm ²	3.5 ± 1.5
UV and condensation resistance, ASTM D 4329 (168 hours of exposition)	ΔE	> 10
Abrasion resistance UNI 8298-9	mg	< 90
Cup 6 Viscosity, ISO 2431	Secs.	25±5
Test for surface brilliance (gloss 60°), UNI EN ISO 2813	---	20 ± 5
permeability to water vapour, DIN 52615	μ	~ 10000
Ratio A : B		1 : 5

N:B: the testing method refers to the regulations quoted

Chemical resistance, UNI EN ISO 2812-1 (method 2)

hydrochloric acid 30% in water	4
Sulphuric acid 10% in water	4
Phosphoric acid 20% in water	2
Acetic acid 30% in water	1
ammonia 15% in water	5
sodium (sodium hydroxide) 30% in water	5
peroxide 3.5% (12 volumes)	5
Mixture of acetic acid (5%) lactic acid (3%) and sodium chloride (2%) in water	4



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Tartaric acid 5% in water	4
Methylated spirits	4
Cyclohexane	5
Solvesso 100	5
Ethyl acetate	4
Technical acetone	5

(1 = disintegration of the product, 5 = no alteration; for the complete scale see Table 1 appendix A)

Packaging and storage

Packaging	9 kg (A+B), of which comp. A: 1.8 kg B: 7.2 kg
Storage	comp. A and B: 24 months in the original packaging in a covered and dry place at temperatures between +5°C e +35°C. Protect from frost.

Legal notice

Tips on how to use our products match the current state of our knowledge and do not imply any assumption of responsibility or/and liability for the final result of works. Therefore, customers are not exempt from the responsibility to verify the suitability of products for use and final aims through preliminary tests. The website www.nordresine.com contains the latest revision of this datasheet.

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