

-  RESIN FLOORS
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-  POSADZKI ŻYWICZNE - DEKORACYJNE I PRZEMYSŁOWE



## Q-RASANTE

### Rapid hardening Epoxide mortar for levelling

#### Description

Q-RASANTE is a water based three component product formed by:

- component A: mix of pre-polymer epoxide liquids;
- component B: amine of co-polymerisation;
- component C: special charges and filler.

After application and hardening the product forms a very hard, slightly rough layer especially designed for smoothing horizontal surfaces to be successively finished with resin.

It has an excellent adhesion to the substrate and a high pressure resistance factor.

Q-RASANTE is designed for use on humid screeds and cement floors. It can also be used between 8÷24 hours after a cast even at temperatures of only +5°C.

#### Range of use

Q-RASANTE can be used as a base layer for the successive coverings in the following sectors:

- in showrooms and shops of any kind;
- in private houses;
- in offices (in this case technical services at Nord Resine must be consulted beforehand);
- resin coverings for industrial floors of various types.

#### Substrates usable:

- newly cast concrete;
- new concrete already set;
- old concrete;
- sand and cement or ready-made screeds and cement based self-levellers;
- cls and screeds on heat radiant floors;
- wooden panels;
- natural stone floors;
- floors paved in tiles of any type;
- resin coverings

**N:B:** Q-RASANTE, in the coloured version becomes a finishing covering for certain categories in the industrial sector

#### 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 application.

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





1. on cls freshly cast, immediately after the mechanical floating phase (generally 8÷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-RASANTE, 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-RASANTE can be applied on top of Q-PRIMER after 6÷12 hours depending on the temperature.

If the water is not absorbed first carry out a 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 new 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



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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.

#### Special preparations

1. Sand and cement screeds just cast must be cured for at least 12÷24 hours, then must be treated with Q-PRIMER (diluted as at para. 1 above) so as to saturate the porosity. After 6÷12 hours it is possible to proceed with the application of Q-RASANTE.
2. In the case of screeds with poor resistance apply at least two coats of Q-PRIMER (diluted as before) so as to reinforce the substrate. After 6÷12 hours fill any hollows or holes with W3 or Q-CRETE. If necessary add quartz sand for applications of more than 3 mm thicknesses. After another 24 hours apply Q-RASANTE.
3. Natural stone floors.  
Structurally healthy but dirty surfaces should be washed with 5 times diluted STRIPPER using a rotary brush with an abrasive disk, abundantly rinsing and aspirating the liquid. Then Q-PRIMER can be applied as at para. 1.
4. Tiled floors of all types  
Tiled surfaces should be roughened with a diamond-coated grinder. The joints (if there are any) should be eliminated using Q-CRETE. 24 hours after the elimination of the grooves Q-RASANTE can be applied.
5. In the case of wooden panels, check that they are well anchored to the floor (with appropriate blocks) in order to avoid warping. Treat the matching joints with NORPHEN PU strengthened with a strip of fibreglass mesh of 160 g/m<sup>2</sup> (of approx. 5÷7 cm wide) and dusted lightly with quartz sand 0.1-0.5 mm. Apply a coat of Q-PRIMER (diluted according to the instructions in the technical notes about soaking treatment) and then apply Q-RASANTE after 6 ÷ 12 hours.
6. In the case of concrete and screeds on floors follow the instructions at paras. 1 and 2.
7. In the case of resin coverings, grind the surface with a diamond-coated disk and proceed with Q-PRIMER as at para. 1.

#### Cracks

The treatment described below assumes the dimensional stability of the cracks.

1. Cracks up to 2 mm wide:
  - Enlarge the crack with an emery wheel to a depth of approx. 1 cm;
  - Use compressed air to blow away the dust;
  - Fill the crack with an epoxide filler prepared with NORPHEN FONDO SL to which has been added 3% approx. in weight of SILICE and dust lightly with quartz sand 0.1-0.5 mm;
  - wait 4÷6 hours before proceeding with Q-PRIMER as at para. 1 of the previous section.
2. Cracks more than 2 mm wide:
  - using a diamond coated disk make a 50 cm long, 1 cm large and 1 cm deep cut at 90° to the crack and repeat every 50 cm
  - prepare 50 cm long and 8 mm diameter reinforced iron rods with good adherence properties;
  - pour NORPHEN FONDO SL thickened with about 3% of SILICE into the crack;
  - insert the rods into the cuts and remove any excess resin;
  - put filler in the joints as described in the previous paragraph and lightly dust with quartz sand 0.1-0.5 mm;
  - wait 4-6 hours before proceeding with Q-PRIMER as at para. 1 of the previous section.

#### Section joints in cement screeds

If the section joint is in correspondence to the threshold of a door or serves to interrupt a form at a corner (an "L" form) of the screed, **it is not necessary to raise the joint to the level of the covering Q-CRETE.**


Fill the crack as described at the paragraph "cracks less than 2 mm wide".

#### Section joints in cls industrial floors

*If the flooring is at least 18 cm thick and reinforced with two arc-welded meshes:*

- remove any sheathing covering the joint;



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- apply a coat of NORPHEN FONDO to the joint with a radiator paint brush (utilisation: approx. 4 g per 1 metre of joint for a depth of 1 cm);
- seal the joint with NORPHEN FONDO SL thickened with about 3% in weight of SILICE and dust lightly with quartz sand 0.1-0.5 mm;
- treat with the planned cycle for coverings.
- *If the flooring is less than 15 cm thick and reinforced with only one arc-welded mesh:*
- reinforce the joints as indicated at para. "cracks more than 2 mm wide" inserting the rods to a depth of at least 3 cm;
- seal the joint with NORPHEN FONDO SL thickened with about 3% in weight of SILICE and dust lightly with quartz sand 0.1-0.5 mm;
- treat with the planned cycle for coverings.

#### Treatment of the expansion joints

The expansion joints present in the substrate should be raised to the level of the covering Q-RASANTE and should be closed with sealants with a medium component or with specific profiles.

#### Preparation and laying of the mixture:

- pour Q-RASANTE comp. A, then comp. B into a container and mix until a homogeneous mixture is obtained;
- add Q-RASANTE comp. C and mix rapidly;

**Use:** a 48 cm smooth steel trowel for the spreading of Q-RASANTE.

#### Waiting time before utilisation

Even though it is water-based, Q-RASANTE has a marked responsiveness even at low temperatures. Depending on the application temperature, the minimum times necessary to reach the hardness useful for the successive finishing coats are listed below

<u>Temperature [°C]</u>	<u>time [hours]</u>
+5	12
+12	8
+20	6

#### Utilisation

For a covering of 0.5 mm thickness it is necessary to apply approx. 0.75 kg/m<sup>2</sup>.

#### Colours

Q-CRETE comes in a standard uncoloured version. The colouring can be requested when it is used as a finisher.

The cost can vary a lot depending on the type of colouring requested. It is therefore advisable to ask about the cost of the product from the sales office before giving an estimate to a client.

#### Warnings and special instructions

##### Do not apply on:

- parquet;
- linoleum;
- rubber
- surfaces with elevated problems of expansion of the matching joints.
- 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.



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#### Features

Volume mass, UNI 8310	g/cm <sup>3</sup>	1.45 ± 0.05
pot-life, UNI EN ISO 9514	min	30±10
Minimum setting time	days	> 7
adhesion to cls (pull-off test), ASTM D 4541 (breaking of support)	MPa	3.5 ± 0.5
UV cycles and condensation resistance, ASTM D 4329 (168 hours of exposition)	ΔE	>20
Bending strength, UNI EN-196-1	MPa	25 ± 1
Pressure resistance, UNI EN-196-1	MPa	50 ± 2
Hardness (Shore D), ASTM D 2240	D	> 65
Abrasion resistance, UNI 8298/9	mg	100 ± 20
ratio A : B : C		0.8 : 1.0 : 4.5

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

#### Packaging and storage

Packaging	3.6 and 18 kg (A+B+C)
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. comp. C: no expiry date

#### 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](http://www.nordresine.com) contains the latest revision of this datasheet.

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