Qualidur

Medium to heavy duty floor hardener

Product description

Qualidur **is a mineral dry shake hardener.** ***Qualidur*** **consists of graded silica sand, selected hard wearing mineral aggregates, cement and special additives.**

Qualidur **is normally applied to freshly laid concrete.**

Colour range
Refer to Rocland colour guide.

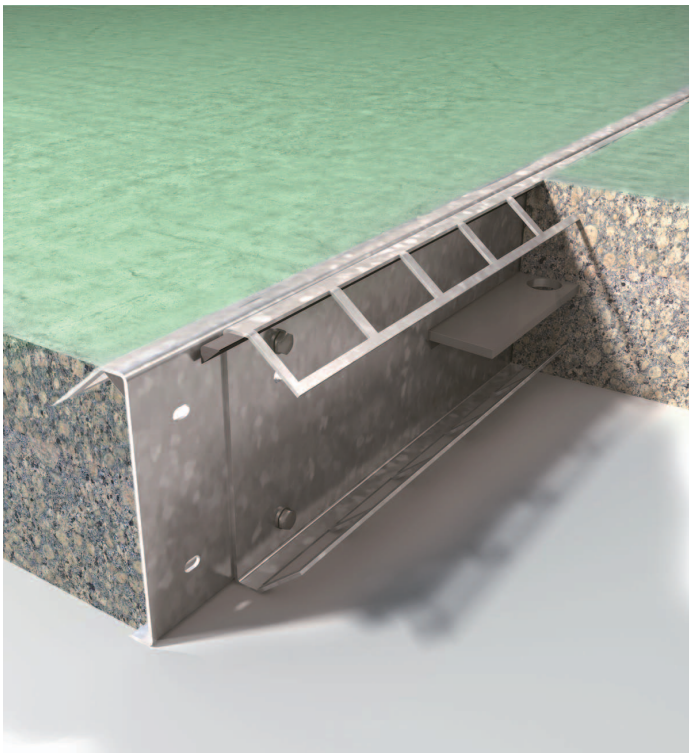
Benefits
- Fibre suppressant and smooth finish
- Hard wearing and easy to seal
- Resistant to oils and hydrocarbons
- Dust proof
- Non-rusting – surface requires no special treatment

Uses
- Medium duty industrial floors
- Exhibition halls
- Warehouses and loading bays
- DIY and Cash & Carry stores
- Workshops

Technical specifications

Qualidur conforms to the requirements of EN 13813 screed materials.

Compressive strength:	≥ 60 N/mm²
	EN 13892-2
Flexural strength:	≥ 7 N/mm²
	EN 13892-2
Abrasion resistance:	< 6 cm³ / 50 cm²
	EN 13892-3
Abrasion resistance:	conforms to BS 8204 'AR2' class
	EN 13892-4
Abrasion Taber resistance :	2,00 gr
(H-22 / 1000 cycles / 1000 gr ASTM C-501)	



Qualidur

Support

Rocland - Data sheet

Qualidur

A ready-to-use factory premixed floor hardener used in the making of concrete floors. ***Qualidur*** consists of graded quartz sands, selected hard wearing mineral aggregates, a hydraulic binder and special additives.
Qualidur can be applied to freshly laid concrete as a dry powder or as a slurry.

Method statement

Concrete quality

New concrete should be formulated with a minimum cement content of 300 kg per m^3 of concrete and with an aggregate suitable for the intended purpose. Plasticizers should be included to improve workability.
Concrete air entrained must be lower than 3%.
Qualidur should be applied onto the concrete as soon as it will support the weight of a man (the foot-print test). This will normally be after 4-12 hours depending on the weather conditions.

Preparation

Large areas of concrete should be laid using a laser screed. For smaller areas the use of a rake and straight edges will provide a suitable even surface.

Application of *Qualidur*

Qualidur is applied to new freshly laid concrete by dry shaking or as 'fresh on fresh' topping.

- **Manual sprinkling**

- For optimum results sprinkling should take place in two stages when applied manually .
- For the first sprinkle coat ***Qualidur*** should be spread evenly on the surface at a rate of 2 to 4.5 Kg/m^2 (2/3 total dosage)
- Once this application of ***Qualidur*** has absorbed all of the moisture , it should be floated using hand trowels for edges and corners, and power trowels for the main surface.
- Immediately after the first power float is complete, the second manual application of ***Qualidur*** should be spread over the surface at a rate of 1 to 2.5 kg (1/3 *total dosage)
- After the second application of ***Qualidur*** has absorbed all the moisture , it should be floated using a hand trowels for edges and corners and power trowels for the main surface.
- A smooth, hard finish is then achieved by use of a power float equipped with finishing blades. For light colors stainless blades should be used.

- **Mechanical spreader**

- Mechanical spreading requires only a single pass
- using a mechanical spreader ***Qualidur*** should be spread evenly over a surface of 3 to 7 kg.
- After the second application of ***Qualidur*** has absorbed all the moisture , it should be floated using a hand trowels for edges and corners and power trowels for the main surface.
- A smooth, hard finish is then achieved by use of a power float equipped with finishing blades. For light colors stainless blades should be used.

- **'fresh on fresh' topping**

- ***Qualidur*** is mixed with water at a rate of 3 to 3.5 litres per 25 kg bag in a pan mixer or any suitable mortar mixer until a homogeneous slurry is obtained.
- The slurry is then poured onto the surface of the concrete at a minimum rate of 12 kg/m^2 and levelled to the required thickness using straight edges.
- The ***Qualidur*** should then be floated using hand trowels for edges and corners and power floats for the main surface.
- A smooth, hard finish is then obtained by use of a power float equipped with finishing blades.

Application of *cure*

- The curing agent **Roc *Cure*** or ***ECOCURE 17*** should be applied immediately after the finishing operation is complete. It is applied using a low pressure spray apparatus evenly over the entire surface at a rate of 100 g/m^2.
- It is essential that the curing process be well advanced before the floor is put into service. The following delays must be observed:

pedestrian traffic	7 days
light traffic	14 days
full use (fork lifts etc)	28 days

Coverage

The floor hardener shall be ***Qualidur*** applied at a rate of:
- 3 to 7 kg/m^2 dry shaking
- 3 to 7t kg/m^2 mechanical spreader
- 12 kg/m^2 'fresh on fresh' topping

The curing agent shall be **Roc *Cure*** or ***ECOCURE 17*** applied at a rate of 100 g/m^2.tt

A premium ***HP*** grade is available where higher mechanical properties are required.

Packaging

Qualidur is packed in 25 kg bags. When stored under cover in dry conditions the shelf life is 6 months. Once opened the contents of a bag must be used immediately.

A guide to the maintenance of **Roc** floors is available on request.

Health and safety

As with all powder products the wearing of a dust mask and gloves is advised.

(See our Material Safety Data Sheet for full details).

Note :
The screed properties under site conditions cannot always be directly comparable with the screed material properties obtained under laboratory conditions, due for instance to variations of mixing, compaction or curing.

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