

Qualidur HP

High performance floor shield

Product description

Qualidur High Performance is a factory blend of selected, optimally graded and shaped non metallic aggregates, cement and additives.

Qualidur High Performance has been specially developed to provide very good abrasion resistance to industrial floors.

Colour range

Refer to Roiland colour guide.

Benefits

- Non rusting
- Static disseminating
- Light reflective
- 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

- Logistics flat floors
- Distributions facilities
- Food processing plants
- Medium duty industrial floors
- Workshops
- Retail commercial outlets

Technical specifications

Qualidur High Performance conforms to the requirements of EN 13813 screed materials.

Compressive strength: $\geq 70 \text{ N/mm}^2$
EN 13892-2

Flexural strength: $\geq 10 \text{ N/mm}^2$
EN 13892-2

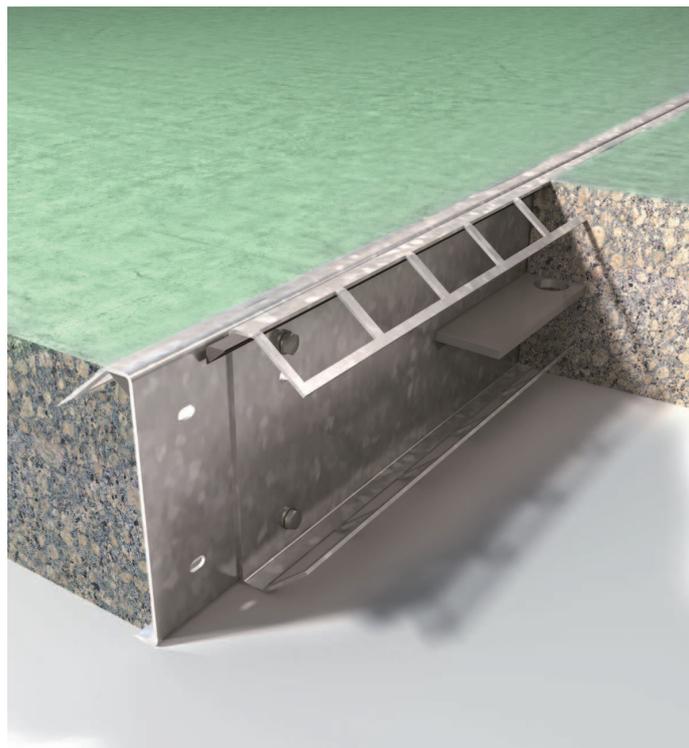
Abrasion resistance: $\leq 3 \text{ cm}^3 / 50 \text{ cm}^2$
EN 13892-3

Abrasion resistance: conforms to BS 8204 'AR1' class
EN 13892-4

Anti static: $10^6 - 10^9 \text{ OHMS}$

Abrasion Taber resistance : 1,50 gr
(H-22 / 1000 cycles / 1000 gr ASTM C-501)

Version 06/2013



■ Qualidur HP

■ Support

Qualidur HP

A ready-to-use factory premixed floor hardener used in the making of concrete floors. **Qualidur HP** consists of graded quartz sands, selected hard wearing mineral aggregates, a hydraulic binder and special additives.

Qualidur HP 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 m³ 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 HP 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 HP

Qualidur HP 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 HP** should be spread evenly on the surface at a rate of 2 to 4.5 Kg/m² (2/3 total dosage)

- Once this application of **Qualidur HP** 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 HP** 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 HP** 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 HP** should be spread evenly over a surface of 3 to 7 kg.

- After the second application of **Qualidur HP** has absorbed all the moisture , it should be floated using a hand trowels for edges and corners and power trowels for the main sur-

face.

- 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 HP** 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/m² and levelled to the required thickness using straight edges.

- The **Qualidur HP** 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/m².

• 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 HP** applied at a rate of:

- 3 to 7 kg/m² dry shaking
- 3 to 7 kg/m² mechanical spreader
- 12 kg/m² 'fresh on fresh' topping

The curing agent shall be **Roc Cure** or **ECOCURE 17** applied at a rate of 100 g/m².

Packaging

Qualidur HP 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).

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Version 06/2013

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.