

Qualitop millenium

Very heavy duty floor hardener.

Product description

Qualitop Millenium is a synthetic dry shake hardener. **Qualitop Millenium** consists of very hard non metallic aggregates, cement and special additives.

Qualitop Millenium can be applied to freshly laid concrete as a dry powder or as a slurry.

Colour range

Refer to Rocland colour guide.

Benefits

- **High performance** wearing shield
- Excellent impact resistance and point load
- Dust proof
- Non-rusting – surface requires no special treatment

Uses

- Very heavy duty industrial floors
- Freight terminals
- Logistics platforms - VNA flat floors
- Railway workshops
- Aircraft hangars
- Heavy engineering works
- Military applications
- Power stations
- Waste and water treatment plants

Technical specifications

Qualitop Millenium conforms to the requirements of EN 13813 screed materials.

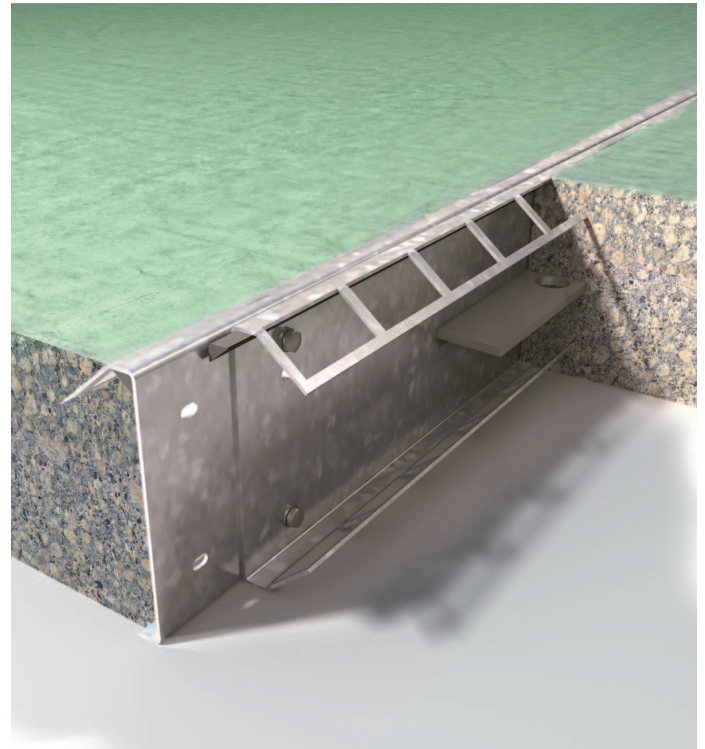
Compressive strength: $\geq 80 \text{ N/mm}^2$
EN 13892-2

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

Abrasion resistance: $\leq 1,5 \text{ cm}^3 / 50 \text{ cm}^2$
EN 13892-3

Abrasion resistance: conforms to BS 8204 'AR0,5' class
EN 13892-4

Abrasion Taber resistance : 0,85 gr
(H-22 / 1000 cycles / 1000 gr ASTM C-501)



■ Qualitop millenium

■ Support

Qualitop millenium

A ready-to-use factory premixed floor hardener used in the making of concrete floors. **Qualitop Millenium** consists of very hard aggregates, cement and special additives. **Qualitop Millenium** 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%.

Qualitop Millenium 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 Qualitop Millenium

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

• Manual sprinkling

- For optimum results sprinkling should take place in two stages when applied manually .

- For the first sprinkle coat **Qualitop Millenium** 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 **Qualitop Millenium** 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 **Qualitop Millenium** should be spread over the surface at a rate of 1 to 2.5 kg (1/3 *total dosage)

- After the second application of **Qualitop Millenium** 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 **Qualitop Millenium** should be spread evenly over a surface of 3 to 7 kg.

- After the second application of **Qualitop Millenium** 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

- **Qualitop Millenium** 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 **Qualitop Millenium** 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 Roc Cure

• The curing agent **Roc Cure** 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 **Qualitop Millenium** 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** applied at a rate of 100 g/m².

Packaging

Qualitop Millenium 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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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.