



# ROCLAND

## Qualidur

### Medium to heavy duty floor hardener

#### Product description

*Qualidur* is a mineral dry shake hardener. *Qualidur* consists of graded quartz 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
- Very hard wearing
- Resistant to oils and hydrocarbons
- Dust proof
- Non-rusting – surface requires no special treatment

#### Uses

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

#### Technical specifications

*Qualidur* conforms to the requirements of DIN, British, Belgium and French standards.

**Compressive strength:** 78 N/mm<sup>2</sup>

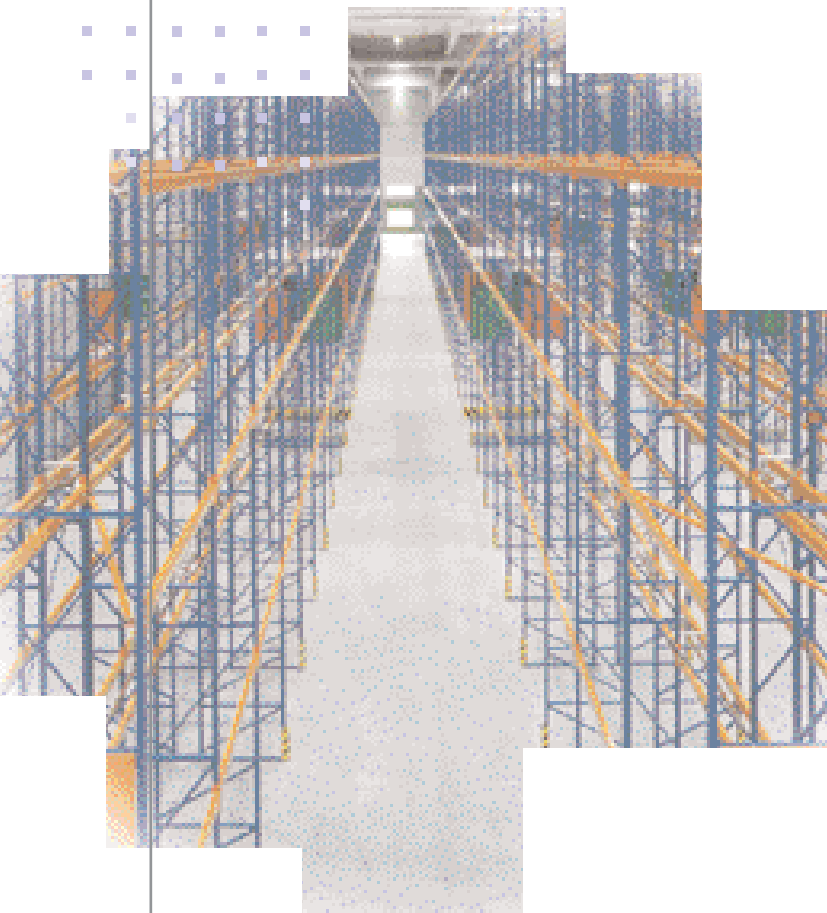
**Flexural strength:** 8.2 N/mm<sup>2</sup>

**Adhesive strength:** 1.1 N/mm<sup>2</sup>

**Abrasion resistance:** conforms to BS 8204 'special class'

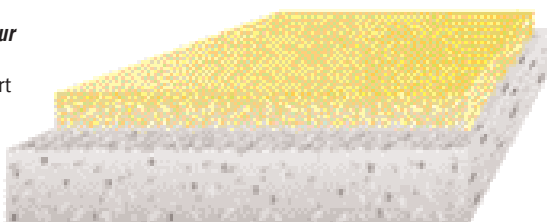
**Slip resistance (wet): (SRT Pendulum)** 0.60

**Water porosity:** 15.8 %



 **Qualidur**

 **Support**



# 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<sup>3</sup> of concrete and with an aggregate suitable for the intended purpose. Plasticizers should be included to improve workability.

**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.

#### • Dry shake application

- For optimum results sprinkling should take place in two stages when applied manually. When applied using a mechanical spreader a single application is sufficient.
- Manually for the first sprinkle coat **Qualidur** should be spread evenly over the surface at a rate of 2 to 3.5 kg/m<sup>2</sup>. Using a mechanical spreader **Qualidur** should be spread evenly over the surface at a rate of 8 to 12 kg/m<sup>2</sup>.
- 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 evenly over the surface at a rate of 2 to 3.5 kg/m<sup>2</sup>.
- Once the second 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.
- A smooth, hard finish is then achieved by use of a power float equipped with finishing blades. For light colours stainless steel 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<sup>2</sup> 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 **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/m<sup>2</sup>.
- 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:

- 4 to 7 kg/m<sup>2</sup> dry shaking
- 8 to 12 kg/m<sup>2</sup> mechanical spreader
- 12 kg/m<sup>2</sup> 'fresh on fresh' topping

The curing agent shall be **Roc Cure** applied at a rate of 100 g/m<sup>2</sup>.

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

## Packaging

**Qualidur** and **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).

### Note :

Whilst all reasonable care is taken in compiling technical data on the company's products, all recommendations or suggestions regarding the use of such products are made without guarantee since the conditions of use are beyond the control of the company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it and that the actual conditions of use are suitable.