



1. FUNCTION

Highly concentrated screed additive as processing aid when earth-moist to pliable cement screeds are laid. QUALIMETER does not belong in the category of conventional screed plasticizers and particularly leads to much easier and faster levelling.

2. FIELD OF APPLICATION

For making cement screeds in all quality classes for floating screeds, including floor heating, bonded screeds and screeds on separation layers in accordance with DIN 18560 and DIN EN 13813.

3. PRODUCT PROPERTIES

- Leads to much easier and faster levelling of the screed
- Facilitates the processing of very sharp/crushed sand
- Favourably affects an increase in the daily coverage
- Homogenises the screed structure
- No entry of air voids in the screed structure
- Absolutely unproblematic even with longer mixing periods
- Very economical, because highly concentrated and minimum dosage for each screed mixture
- Works regardless of temperature (not below +5 °C and not above +28 °C) and air humidity
- Insensitive to moisture, therefore also suitable for permanently wet areas

4. BASE MATERIALS

QUALIMETER is compatible with CEM I and CEM II in accordance with DIN EN 197.

Kenndaten			
Colour	Transparent	Temperature of material	Above +5 °C up to max. 30 °C
State	Liquid	Storage stability	Approx. 12 months – store protected from sunlight and above freezing point.
Density (at 20 °C)	0.96	Delivery form	Disposable container PVC canister: 20 litres net 20 litres net Dosipack 60 x 0.03 l

5. INSTRUCTIONS FOR USE

Apart from the manufacturer specifications by PCT-Chemie GmbH the respective guidelines according to DIN 18560, DIN EN 13813 as well as the information and instructions in the respective specialised information sheets are applicable for the screed application/screed laying.

For heated screeds, EN 1264-4 and the technical information “Interface coordination for heated floor structures” of the Zentralverband Sanitär Heizung Klima (Central Sanitary, Heating and Air Conditioning Trade Association), St. Augustin, and the information sheets published by the ZDB (Central Association of the German Building Trade) in connection with heated floor structures are also applicable.

6. INSTRUCTIONS FOR USE

Dosage: 30 ml per screed standard mixture (mixing vessel 250 litres gross capacity)

150 ml per m³ floor screed mortar

A very comfortable type of dosage is the use of the **QUALIMETER proportioning pump** or the use of **QUALIMETER dosipacks**.

Addition: Add QUALIMETER to the first mixing water.

Important note: A dosage of more than 50 ml/screed mixture and/or 250 ml/m³ screed mortar must not be exceeded.

7. MIXTURE INSTRUCTIONS

QUALIMETER	30 ml/mixture
Cement CEM I or CEM II approved by PCT	50 kg /mixture (or more, depending on required quality)
Gravel sand 0–8 mm (range of grading curve A/B 0–8 according to DIN 1045-2)	310 kg /mixture
Water/bonding agent value: 0.45–0.70 Application temperature: +5 °C to +28 °C	

- Fill the screed machine with screed sand up to half as usual
- Add the respective amount of cement, but at least 50 kg
- Add QUALIMETER to the first mixing water (usually 30 ml), mix well and subsequently fill into machine as usual
- Add remaining amount of sand
- Add more water until the required processing consistency has been reached
- Never ever use dosages with more than 50 ml/mixture!
- Mixing time **at least one minute. Please observe strictly!**

8. BUILDING CLIMATOLOGY

Protection against draughts and direct sunlight during the hardening process must be guaranteed.

Freshly laid surfaces must be protected from drying out too quickly.

9. SPECIAL INSTRUCTIONS

QUALIMETER has absolutely no impact on the screed drying process if conventional cement screeds are used.

Do not use other additives together with QUALIMETER, particularly additives with a plasticising effect.

QUALIMETER has been designed to use with Retanols. The use with other accelerated drying and strength increasing screed additives has not been approved by PCT-Chemie GmbH.

If used with RETANOL® EKA BLAU, EKA BW, VIWA or VIWA GELB this could slightly prolong the set acceleration times.

In only a few cases such an effect could also be observed when used with RETANOL® Xtreme and Xthinn.

10. SAFETY ADVICE

- QUALIMETER contains phosphoric acid ester.
- H317: Can cause allergic skin reaction.
- In case of contact with skin, wash affected areas with plenty of clear water and soap.
- In case of contact with eyes, rinse immediately with plenty of clear water and seek medical advice.
- P280c: Wear protective gloves
- P260i: Do not inhale dust/gas/fog/vapour
- P272: Remove soiled clothes immediately. Under no circumstances continue to wear such clothes.