



XTREMEXT

For high early and final strength up to CT-C60-F8 and ready for floor finishes from 3 days



Abbreviated product data sheet

RETANOL® XTREME XT

Retanol® XtremeXT is renowned for its very high early and final strengths and for its guaranteed quick drying times. With Retanol® XtremeXT Screed, tile floor finishes can be installed after 2 days and all other floor finishes after 3 days (or after 5 days where the screed has been installed over underfloor heating). Retanol® XtremeXT Screed reaches 80-90% of its final strength within 3 days of installation and can reach compressive and flexural strengths of C60 N/mm² and F8 N/mm² respectively.

| | | | |
|--|--|--|---|
|  | DRYING TIMES from 3 days |  | COMPRESSIVE AND FLEXURAL STRENGTH up to CT-C60-F8 |
|  | FOOT TRAFFIC after 1 day |  | NORMAL SITE TRAFFIC after 2 days |
|  | COMMISIONING UFH after 1 day |  | MINIMUM NOMINAL THICKNESS 2 KN/M² from 35 mm/30 mm* pipe cover bonded 12 mm |
|  | SURFACE STRENGTH ≥ 1,5 N/mm ² |  | SHRINKAGE SW 2 (SW 1 with Agent X®) |
|  | ENERGY EFFICIENCY CLASS EC 3 |  | CERTIFICATION DGNB conformity, emission-tested (TÜV Rheinland), EC1 Plus according to Emicode |

DOSAGE & CEMENT QUANTITY

| | XTREME | XTREME HD | XTREME ULTRA HD |
|-----------------------------|------------------|------------------|------------------------|
| Compressive strength | CT-C40-F6 | CT-C45-F6 | CT-C60-F8** |
| Dosage | 400 ml | 480 ml | 480 ml |
| Cement quantity | 62,5 kg | 75 kg | 75 kg |
| Commisioning cycle | 4 days | 4 days | 4 days |

* with underfloor heating

** 30-40 %, 2-8 mm gravel to be added

· Do not exceed the maximum dosage of 500 ml.

· The specifications refer to a standard mixing vessel with a net capacity of 200 litres and a filling quantity of approx. 320 kg screed gravel.

· The strength class depends on the quality of the screed gravel used.

· The specification 'after the X. Day' does not include the installation day.

· For nominal thicknesses over 80 mm, readiness for covering may be delayed. Therefore, consult with technical support in advance to find a joint solution.

POINT LOAD INFORMATION

| Area load Point load | 2,0 kN/m ² 1,0 kN | 3,0 kN/m ² 2,0 kN | 4,0 kN/m ² 3,0 kN | 5,0 kN/m ² 4,0 kN | 7,5 kN/m ² 6,0 kN | 10,0 kN/m ² 8,0 kN |
|--------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Flexural strength ≥ F6 (with UFH) | 30 mm*** | 30 mm*** | 40 mm | 45 mm | 70 mm | 85 mm |
| Flexural strength ≥ F6 (without UFH) | 35 mm | 35 mm | | | | |
| Flexural strength ≥ F8 (with UFH) | 30 mm*** | 30 mm*** | 40 mm | 40 mm | 60 mm | 80 mm |
| Flexural strength ≥ F8 (without UFH) | 35 mm | 35 mm | | | | |

*** Pipe coverage

· Unless otherwise defined, data as minimum nominal thickness (without UFH) or minimum pipe cover (with UFH).

AREAS OF APPLICATION

- For all screeds according to BS 13892/BS 8204
- Particularly suitable for high-strength screeds with a fast readiness for covering
- Screed suitable for indoor and outdoor areas as well as in permanently wet areas

SAND, WATER, CEMENT

- **Grading curve:** Sand must be according to BS 13139, for the production of screed concrete, grain size range 0-4 mm
- **W/C value:** **Min. 0,4**, max. 0,6
- **Cement:** Use of cement according to the PCT cement release list
- **≥ C60-F8 and/or ready for covering after the 2nd day for tiles:** 75 kg cement grade 42.5 R/N or above

MIXING INSTRUCTIONS

1. Shake the container well to mix the Retanol® XtremeXT additive to a consistent colour before use, and then shake as required throughout the installation to maintain the consistency of the liquid (every 30 mins).
2. Fill half of mixing vessel with 0-4 mm screeding sand and required cement.
3. Dilute Retanol® XtremeXT with the first mixing water (usually 5-10 litres), then fill the machine completely.
4. Gradually add the required amount of residual water until a stiff-plastic consistency is achieved.
5. Mix screed for full 2 minutes.

FURTHER PRODUCT FEATURES

- Shrinkage can be further reduced in combination with Agent X®
- Density approx. 2,000 to 2,200 kg/m³
- Thermal conductivity approx. 2.0-2.4 lambda
- Better processing and lower peel resistance
- Minimally affected by building climate conditions
- Reduction of air content
- Start ventilation after 24 hours
- 80-90 % of final strength 3 days after installation
- Moisture protection for at least 4 months

CM MEASUREMENT

- A Retanol® screed is considered a proprietary screed within its first 56 days after installation, it should not be tested with a RH test, it must be tested with a calcium carbide method before covering.

Can be tested and approved by PCT Chemie in regard of rest moisture by PCT Chemie in form of a CM measurement.

- After 56 days, the Retanol® screed is assessed according to the standard values of BS-8203.

PROCESSING INSTRUCTIONS

- **Working time:** 45 minutes
- **Finishing time:** 60 minutes
- **Outside temperature:** +5 °C to +28 °C for screed, environment and substrate
- Do not mix with other screed additives
- Never reactivate set screed with water.

DOWNLOADS

- Heating protocols
- Specifications text
- DGNB data sheet
- GEV (Emicode) certification
- Measurement protocols
- Point load informations
- Product brochure
- Retanol® after installation
- Moisture protection
- TÜV emissions test
- Winter rules
- Approved cement list



IMPORTANT NOTE

This abbreviated version of the product information serves as a simple 'product guide' to provide an overview of the main properties of our products and to support product selection within the PCT Chemie range.

For detailed technical information on the correct application of the products on the construction site, including the relevant site conditions such as manufacturer's specifications, standards and state of the art, please refer to the detailed version of the product brochure.

The specified technical properties can only be guaranteed if these general conditions are observed.

© PCT Performance Chemicals GmbH Ltd.

 49 Melford Court, Hardwick Grange, Warrington, England, WA1 4RZ
 +44 1925 500845
 enquiries@pct-chemie.com
 www.pct-chemie.de
 Status: July 2025