



Gütersloh Theatre: RETANOL® XTREME, CT-C35-F5-S60, workability: 7 days

RETANOL[®] XTREME



FOR EXTREMELY HIGH EARLY AND FINAL STRENGTHS.
GUARANTEED.

RETANOL® XTREME

HIGH STRENGTH AND ABLE TO BEAR LOADS EARLY.

1. FUNCTION

For making low-shrinkage and low-tension bonded cement screeds, screeds on insulation layers, screeds on separation layers and heating screeds. Retanol® Xtreme is characterised by its very good application properties and high coverage and comes with a guarantee* for obtaining workability and strength.

2. PRODUCT PROPERTIES

- Works virtually regardless of temperature and air humidity
- Tiles can be laid after 48 hours* with 75 kg cement = 375 kg/m³ of class 42.5 R, all other coverings after 72 hours
- Excellent application properties with amounts of cement up to 100 kg thanks to much easier and faster levelling
- Long workable life despite short curing time
- Insensitive to moisture, therefore suitable for permanently wet areas
- Approx. 80 – 90 % final strength after 3 – 4 days, approx. 40 N/mm² after 48 hours with 75 kg cement = 375 kg/m³ of class 42.5 R, grading curve A/B, 0 – 8 mm, in accordance with DIN 1045-2
- Obtainable minimum strengths CT-C40-F6 up to CT-C60-F8 depending on aggregates and amount of cement
- Pipe coverings for heating screeds of 30 mm at up to 3 kN/m² area load
- Bonded screeds from 25 mm layer, in special cases upon PCT site inspection and assessment, 15 mm depth (with ZE bonding agent) is possible with 0–4 mm Aggregates.
- Floating screeds from 35 mm layer thickness

* These data refer to 50 mm application thickness for unheated and 65 mm maximum for heated floor screeds. In case of major application thicknesses it is possible to increase the dosage to 450 – 500 ml standard screed mixture = 2,250 ml/ m³ – 2,500 ml/m³.
CAUTION: 500 ml = 2,500 ml/m³ must under no circumstances be exceeded!

3. MIXING INSTRUCTIONS

At least 62.5 kg cement;

Dosage: 400 ml Retanol® Xtreme per mixture in standard screed pump (mixing vessel with 250 l gross capacity) = 2,000 ml/m³

Important note: cement quantities below 62.5 kg = 312.5 kg/m³ and/or dosages below 400 ml = 2,000 ml/m³ do not bring about a greater increase in strength than with screeds without Xtreme.

Fill the floor screed conveyor to about one-half with sand and the entire amount of cement as usual, add Retanol® Xtreme to the first mixing water (usually 5 – 10 litres) and then fill the conveyor completely. In so doing, gradually add the required amount of residual water until a stiff to pliable consistency is obtained. A mixing time of 2 minutes ensures proper blending of the ingredients and the effect of the added Retanol® Xtreme and must be observed at all times.

Retanol® Xtreme must never be mixed with other screed or mortar additives.

When preparing the screed formulation, ensure that you select the suitable types of cement, cement quantity and aggregates **in accordance with DIN 1045-2, grading curve A/B, 0–8 mm, for making screed concrete.**

4. INSTRUCTIONS FOR USE

The general guidelines, data sheets and normative specifications for cement screeds are applicable to the laying and making of Retanol® screeds.

Please note the accelerated curing process of Retanol® Xtreme.



EUROPA-Galerie, Saarbrücken: RETANOL® XTREME, RETANOL® EKA BLAU, CT-C55-F8-S80, workability: 14 days

- Application temperature: +5 °C to max. +28 °C (ambient and substrate temperature).
- Apply Retanol® Xtreme within 45 minutes after mixing. Higher temperatures reduce, lower temperatures increase the In general: Retanol® Xtreme screeds should have been levelled and smoothed/rubbed after max. 60 minutes.
- Never reactivate screed mortar which is already setting with water – **this also applies in particular to mechanical and manual smoothing** – nor mix with fresh Retanol® Xtreme.
- Always shake Retanol® Xtreme well before use.
- Shake the product at regular intervals (about every 30 minutes) during application. Long “standstill periods” of the canister cause the ingredients to deposit at the bottom, with a negative effect on the function of the product.
- Draught, direct sunlight and excessive heat (heating period in the cold season) must be avoided during the entire application. It may be necessary to darken large window fronts and floor-level glass facade areas.

IMPORTANT NOTE: CEMENT QUANTITIES BELOW 62.5 KG = 312.5 KG/M³ AND / OR DOSAGES BELOW 400 ML = 2,000 ML/M³ DO NOT LEAD TO ANY STRENGTH IMPROVEMENT COMPARED TO SCREEDS WITHOUT XTREME

5. TYPES OF CEMENT

CEM I 32.5 R or 42.5 R

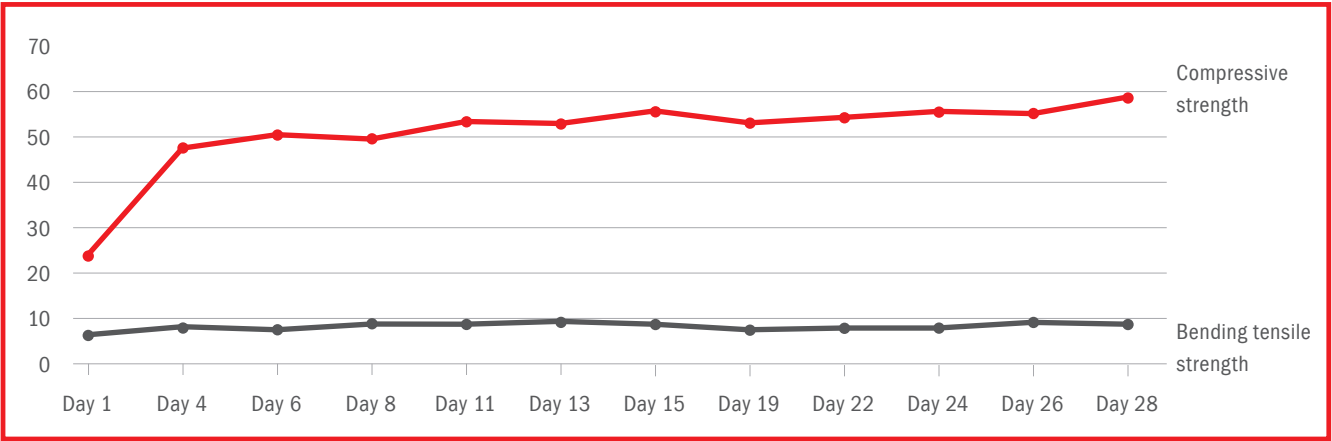
Alternatively CEM II 32.5 R A-LL, 42.5 R A-LL and 42.5 N A-LL

6. REGULAR VENTILATION OF ROOMS WITH HEATED AND UNHEATED RETANOL® SCREEDS

High indoor air humidity is uncondusive to the drying process. This is why regular ventilation is necessary from the second day after completion of the screed application. All windows and doors must be opened for 15 to 20 minutes two or three times a day. This provides for the necessary air exchange and supports the drying process. In case of insufficient regular ventilation or if rooms are not ventilated it takes considerably longer to obtain workability.

*Practical application taking into consideration all PCT use and application specifications. Or by PCT site supervision – this requires a separate assignment.

Example: compressive strength development



All the information on this product given above is based on extensive practical experience and tests carried out by PCT Performance Chemicals GmbH. However, it is not possible to take all construction site conditions into account and to give suitable instructions for use in each case. It is therefore recommended to verify the applicability, appropriateness and practicability of this information and the intended measures by means of individual tests. PCT assumes warranty for the correctness of this product information and the described properties as well as for the effect of the product. PCT reserves the right to change the product specifications. If the site is or has been supervised by PCT the user is under no obligation to check applicability and appropriateness.