

## Technical Manual

### Anchoring mortar

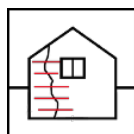
AnkerBau is a single-component product with good adhesion to joined wall materials. Designed for anchoring spiral anchors in the reinforcement of cracked masonry structures. Developed with the possibility of machine application.

#### Properties

- ❖ Plastic consistency
- ❖ Excellent adhesion to the substrate
- ❖ Excellent pumpability
- ❖ Resistant to low temperatures
- ❖ Does not cause corrosion of metals
- ❖ Resistant to sulfates
- ❖ Easy to apply



#### Areas of application



- ❖ For horizontal and vertical surfaces during the reinforcement of cracked walls
- ❖ Restoration of historic buildings
- ❖ General and industrial construction

#### Product Technical Data

Flexural strength [MPa] after: 1 day / 7 days / 28 days	10 / 30 / 40
Compressive strength [MPa] after: 1 day / 7 days / 28 days	2,5 / 4,5 / 8,0
Grain size [mm]	Do 1,0
Consumption [kg/l]	1,80
Resistance to freezing / thawing in water at -18°C/+18°C determined by the change in compressive and bending strength	200 cykli
Capillary absorption ( $\text{kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0,5}$ )	<0,5
Pull-off strength from the concrete substrate after 28 days using the "pull-off" method [MPa]	2,0
Chloride ion content [%]	≤ 0,05

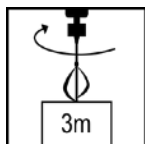
## Optional Additional Products

- ❖ Spiral anchors - Hammpack® Spiral Hammer
- ❖ Stabilizing clips
- ❖ Mortar application pump

## Preparation Work

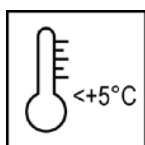
- ❖ Clean the substrate of all impurities
- ❖ Make anchor grooves or holes and blow them with compressed air
- ❖ Moisten the anchoring area with water (remove excess water)
- ❖ For very absorbent materials, repeat the wetting process several times

## Mixing



- ❖ Prepare the recommended amount of tap water
- ❖ Pour the prepared water into a clean container and add the dry mortar
- ❖ Mix with a mixer for 3 minutes, then leave the mortar to mature for approximately 2 minutes
  - ◆ Use only a low-speed mixer
  - ◆ Hand mixing with a trowel is not recommended
- ❖ After 2 minutes, mix the mortar again for approximately 1 minute
- ❖ After proper preparation, the mortar can be applied manually or mechanically
- ❖ For injection, the mortar should have a creamy consistency

## Application Method



- ❖ The temperature of the material, environment, and substrate should range from +5°C to +30°C
- ❖ Lower temperatures increase the usability time of the mortar, while higher temperatures shorten it

Pot life of mortar for processing	40 min in 25 °C
	60 min in 7 °C

- ❖ Fill the prepared mortar into properly made grooves or holes without leaving any empty spaces
- ❖ Insert spiral anchors into the mortar (stabilizing clips are recommended for proper placement of anchors)
- ❖ Start the application of the second layer of mortar
- ❖ Smooth the joint with a trowel
- ❖ After approximately 24 hours, when the mortar has dried, plaster the areas where the work was done.

## Cleaning after finishing work

- ❖ Clean the pump and equipment with water
- ❖ After finishing work, flush the pump with Hamm-pack® PI-SAVER
- ❖ During cleaning, be careful to observe appropriate safety precautions

## Storage Shelf life

- ❖ In a dry, cool, and non-sunlit location
- ❖ Shelf life of 12 months from the production date in the original, unopened packaging

## Safety

- ❖ Wear protective glasses, gloves, and clothing. Avoid contact with skin and eyes
- ❖ In case of contact with eyes: rinse thoroughly with clean water and consult a doctor
- ❖ In case of contact with skin: rinse thoroughly with water



**EN: Danger** - H315 - Causes skin irritation; H317 - May cause an allergic skin reaction; H318 - Causes serious eye damage; P102 - Keep out of the reach of children; P261 - Avoid breathing dust; P280 - Wear safety glasses, face protection, protective clothing, gloves; P303+P361+P353 - IF ON SKIN (or hair): Remove/remove all contaminated clothing immediately. Rinse skin under a jet of water/shower; P305+P351+P338 - IF ON EYES: Rinse cautiously with water for several minutes. Remove contact lenses if accessible and easy to remove. Rinse continuously; P333+P313 - IF skin irritation or rash occurs: Seek medical advice/attention. - Contains cement. May cause respiratory irritation. Irritating to skin. Causes serious eye damage. May cause an allergic skin reaction.