Information on mixing RSS Flüssigboden

Mixing plants: Production from bulk material (silo)

- The proportions of base material and mixing water depend on the inherent moisture content. The latter must be determined at least once a day (with documentation) and the results must be taken into account.
- The production technique depends very much on the mixing technique and the dosage possibilities on site and must be agreed between mixing master and mix design adjuster. If there is no direct possibility of adding FBC in the compulsory mixer, is it better to prepare a dry mixture of base material and FBC with sufficient mixing time (usually approx. 1 minute is enough) before the addition of cement and water. If possible, approximately 10% of the total water should be added at the end of the mixing process.
- At least for the first batch of the day, the diameter of flow is to be determined. Visual inspections of the drum content are recommended.
- If no bulk density determinations have been commissioned separately, the FiFB calculates with the following parameters: Bulk density BB-FBC: 2,65 kg/dm³, BCE: 3,1 kg/dm³, base material: 2,65 kg/m³, pore content: 0%. If other values are stored in your control system, please inform the mix design adjuster.

Mixing plants: Production from bagged material

- The proportions of base material and mixing water depend on the inherent moisture content. The latter must be determined at least once a day (with documentation) and the results must be taken into account.
- The production technique depends very much on the mixing technique and the dosage possibilities on site and must be agreed between mixing master and mix design adjuster.
- The truck mixer is usually filled place in three steps: 1) Addition of half of the aggregate with cement and half of the mixing water, mixing at full rotation speed for 15 seconds. 2) Addition of the total amount of FBC as bagged material. The packaging must be disposed of. 3) Addition of the second half of aggregate and cement, addition of the remaining water. During the addition, the drum rotates at full rotational speed.
- After the truck mixer has been filled, the drum has to run for about 5 minutes at full speed.
- At least for the first batch of the day, the diameter of flow is to be determined. Visual inspections of the truck mixer content are recommended.
- If no bulk density determinations have been commissioned separately, the FiFB calculates with the following parameters: Bulk density BB-FBC: 2,65 kg/dm³, BCE: 3,1 kg/dm³, base material: 2,65 kg/m³, pore content: 0%. If other values are stored in your control system, please inform the mix design adjuster.

Production of small quantities

- The proportions of base material and mixing water depend on the inherent moisture content. The latter must be determined at least once a day (with documentation) and the results must be taken into account.
- The diameter of flow depends very much on the mixing technique and the energy input on site. The total mixing time up to the determination of the diameter of flow should be about 20 minutes, or the mix design adjuster should specify it.
- The mixing vessel is usually filled in the following order: Filling the mixing vessel with homogenised and, if required, treated base material. Addition of FBC and cement. Mixing the materials until the mixture is homogeneous (if necessary, work through poorly mixed areas manually). For cohesive soil: gradual addition of the water with mixing and homogenisation of the liquid soil after each addition of water. For granular soil: add all water in one step. Mixing until a homogeneous total mixture is obtained. For cohesive material, the mixing process should be completed after dissolution of the lumps after 20 minutes. For granular material, several minutes of mixing pauses must be made, but the 20 minutes must be observed. For each mixture the diameter of flow is to be determined.

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This information is a general recommendation and it is the user's personal responsibility to check it for suitability in individual cases..