

ABSTRACT

TITLE: CONCRETE SHRINKAGE THEORY-BASED BUILDING FLOOR CRACK-RESISTANT METHOD

5 The present invention relates to the technical field of concrete structure construction, and relates to a concrete shrinkage theory-based building floor crack-resistant method, for use in solving the problem of concrete shrinkage cracks. The method comprises: first, sequentially completing, from bottom to top, the construction of a base layer composed of a cast-in-place concrete floor slab, plain cement slurry, and a fine aggregate concrete sloping and leveling
10 layer; second, dividing a concrete pouring area and a post-cast strip, and laying a rebar mesh in the concrete pouring area, where square bars are arranged on the two side surfaces of the rebar mesh away from a wall body and the base layer, a connecting screw is provided with a matching single-thread nut, and the single-thread nut is arranged on the side of the square bar away from
15 a rebar; then pouring concrete to form a fine aggregate concrete surface layer; then calculating the shrinkage per unit of concrete according to a concrete shrinkage formula, calculating the shrinkage of the concrete in a shrinkage direction, and pushing a torsion device to perform a shrinkage compensation operation according to a calculated displacement value of a transverse torsion member; finally, removing and recycling the square bars and the torsion device, and
20 pouring the post-cast strip and maintaining same. **Figure 5.**