



BLANKE ELOTOP CARBON

Flexibly adjustable electric heating mat for walls and floors



1 Measure the resistance values of the heating mat with the multimeter, and enter the measured value and the length of the heating mats in the measuring log. Divide the heating mat with 4 connection contacts by cutting it into two heating mats with 2 connection contacts respectively. Test the two sections individually. If only 2 of the 4 connection contacts are required, the other two (approx. 3 cm on the 59 cm wide side) must be removed.



2 Mark the position of the heating mat and connections (the heating mats must be spaced at least 20 mm apart) on a level, load-bearing substrate that is temperature-resistant up to 70 °C (if possible with insulation underneath) and determine where the power supply unit (for wet rooms, outside safety area 2) is to be located. In the case of connecting cables with a 2.5 mm² conductor cross-section, the distance between the heating mat and the power supply unit must not exceed 10 m, or 25 m with a conductor cross-section of 6 mm².



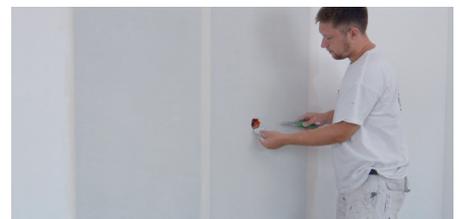
3 Insert/slot the heating mat connections and the twin connecting cable into the substrate or, if used, into the insulation board. The slots are then closed and the surfaces primed.



4 In the case of electrical floor heating, a floor sensor is prescribed in accordance with EN 50559:2013-12. Mark the position of the sensor sleeve (aluminium block) and corrugated tube 60 cm away from the wall centred under a heating mat and insert it.



5 Insert the corrugated tube into the floor sensor sleeve and smooth over with levelling compound flush with the floor surface. To avoid leakage currents, tape the aluminium block to the heating mat with insulating tape.



6 Measure the items for which cut-outs are required (water connections) and transfer them to the heating mat. Please note that cut-outs must not exceed a diameter of 70 mm or 70 x 70 mm. Cut-outs of this size must be located in the carbon area of the heating mat, spaced 50 mm apart with a maximum of 5 to 1 lm; cut with scissors, taking care not to damage the copper strip.



7 Mix the thin-bed mortar (C2/S1) with the maximum amount of water and apply using a spreader comb with 6 mm teeth. Lay the heating mat on the substrate with the copper strip facing down.



8 Smooth the heating mat with a plastic trowel and level off the thin-bed mortar pushing through pores to create a 1-2 mm covering. Avoid kinks and wrinkles, as well as covering movement joints in the substrate.



9 Crimp the connecting cables with the crimps (crimp with the crimp tool and shrink with the hot air gun) to the (if necessary, shortened) connecting cables of the heating mat, insert in the slot and smooth over with levelling compound. After installation, recheck the resistance of the heating mats. In the case of wet rooms, composite sealing and tile laying using the thin-bed method is carried out.