

PROCESSING HINTS #6

NEODUR HE 65 metallic - application on set base concrete

PREAMBLE

These hints inform about the processing of e.g. NEODUR HE 65. They do not replace our currently valid data sheets. Our technical application recommendations are based on our experience. We recommend to adapt the processing to the local conditions and refer to our general terms of sale and delivery. For further information, please refer to our respective product data sheets, maintenance instructions and tender specifications.

SUB-BASE

The sub-base of strength class C 30 must fill the demands of DIN EN 13813 / DIN 18560-7. Demanded surface bond strength 1,5 N/mm².

The sub-base is prepared mechanically e.g. by milling and/or shot peening.

Picture 1: Road milling machine



Picture 2: Shot peening



Picture 3: Cleaning with cleaning machine



Picture 4: Pre-wetting of sub-base matt-damp



The surface must be crack-free, rough and open-pore. Demanded evenness acc. to DIN 18202, table 3, line 3. Then clean surface thoroughly. Pre-wet clean sub-base the day prior to the application.

BONDING COMPOUND

Mix bonding compound KORODUR HB 5 with electric stirrer or in pan type mixer for at least 3 minutes. Apply the uniformly brown colored slurry 1 - 2 mm thick on the matt-damp sub-base with street broom.

Picture 5: Mixing the bonding compound



Picture 6: and distributing with street broom



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APPLICATION

Mix NEODUR HE 65 metallic in suitable pan type mixer in a workable consistency for at least 3 minutes and transport it in cart to the surface.

Picture 7: Example pan type mixer

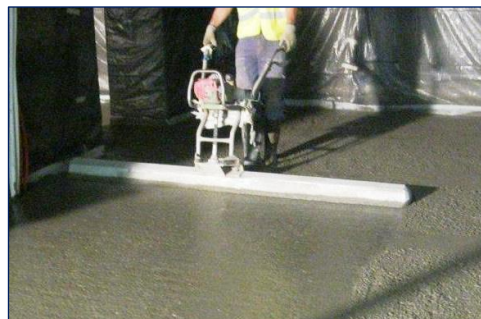


Picture 8: Striking off with leveling gauge / aluminum lath



Apply the hard aggregate screed over leveling gauges at least 10 mm thick (only when using hand-held trowels) or 15 mm thick by means of leveling board or vibratory screed on to the fresh KORODUR bonding compound.

Picture 9: Striking off with vibratory screed



Picture 10: Power trowel (blades) (left) and wing float



SMOOTHING

After the application of the hard aggregate layer, the surface is troweled in due time with disk float. For complete finishing several troweling passes (blade) can be carried out (whereby the blades are gradually adjusted steeper). Depending on the specified surface roughness, further measures from customers' site may be taken (e.g. fine broom finish).

CURING

After the final smoothing pass, the surface must be cured. Curing agents such as KOROTEX or KOROMINERAL CURE can be used for this.

Picture 11: Smoothing with power trowel (blades) and double trowel



Picture 12: Curing with KOROMINERAL CURE or KOROTEX



JOINTS

Joints in the one-layer KORODUR bonded screed are to be provided:

a) above each joint in the supporting concrete. b) edge joints along uprising masonry. The joints are arranged by cutting joints above the existing joints of the supporting concrete or on uprising building components as edge joints. The joints are then filled with suitable joint sealants, such as bitumen, thiocole, silicone rubber or elastic polyurethanes.