

PROCESSING HINTS #2

KORODUR / NEODUR Hard aggregate layer - 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 subbase 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 subbase the day prior to the application.

BONDING COMPOUND

Mixing 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 mat-damp sub-base at hand of street broom.

Picture. 5: Mixing bonding compound



Picture. 6: And distributing with a street broom



APPLICATION

Apply NEODUR HE 65 with suitable compressed air screed feeding pump, screw pump or mix in KORODUR silo technique in workable consistency and pump on the surface.

Picture 7: Compressed air screed feeding pump



Picture 8: Screw pump



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Picture 9: KORODUR silo technique



Picture 10: Material application with feeding hose



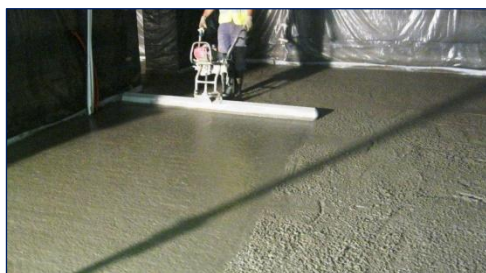
Apply the hard aggregate screed over leveling gauges 15 mm thick on to the fresh KORODUR Bonding Compound and strike off with leveling board or vibratory screed.

Picture 11: Application with compressed air feeding pump



Picture 12: Striking off with leveling board / aluminum lath

Picture 13: Striking off with vibratory screed



Picture 14: Grinding with power trowel (disk)

GRINDING / SMOOTHING

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

Picture 15: Power troweling (blade and disk)



Picture 16: Power trowel (blade) and doublet trowel in work

CURING

After application of the hard aggregate layer, the surface is troweled in due time with disk float. After a first troweling of the surface with disk, another 2-3 troweling passes (blade) may follow to finish the treatment of the surface (whereby the blades are gradually adjusted steeper).

Picture 17: Curing with KOROTEX



Picture 18: Curing with KOROMINERAL CURE

JOINTS

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

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