

Efficient Concrete Repair with the PFT N 2 V Conveying Pump

In Bayreuth (South Germany), a PFT N 2 V was successfully used for a concrete repair project. The staircase of a public garage was considerably damaged by the influence of the weather. On projecting parts of the walls and on the ceilings, there were enormous concrete spalls. These spalls were so deep that the reinforcement was partially exposed. The municipal authorities charged Robert Jobst of BPB Beton-Prüfinstitut Bayreuth GmbH, a local



Mixing concrete mortar in a horizontal mixer – supplying it to the PFT N 2 V – feeding it to the mortar pump by means of a worm shaft – and applying it to the wall using a hose and a spray gun: This is the whole secret of SPCC mortar application with the aid of a PFT N 2 V.



The large concrete spalls had to be "pre-treated" before the actual rehabilitation work could begin: Loose pieces of concrete were removed by sandblasting, a wooden formwork was applied, and the exposed reinforcement received a protective coating.



When backed by a powerful machine, one can work economically and efficiently.

concrete testing and repair company, with the rehabilitation of the crumbly concrete.

In his efforts to execute this order quickly and economically, Mr. Jobst contacted PFT representative Otto Iff. Since PFT had already gathered numerous positive insights in the application of concrete mortar, it was an easy decision for Mr. Iff

to recommend the conveying pump most commonly used for the application of PCC and SPCC mortar: the PFT N 2 V mobile conveying pump. In this

special case, a PFT N 2 V with a 3 kW vario motor was used. The vario drive of the pump offers the advantage that variable speeds between 50 and 340 rpm can be obtained, resulting in conveying capacities between 3 and 20 l/min. Before the use of the conveying pump, the concrete base had to be prepared. Loose pieces of concrete were removed by sandblasting, and the exposed reinforcement was pre-treated. Then the actual rehabilitation work could begin.

Concrete mortar was mixed and supplied to

the PFT N 2 V by a horizontal mixer. Following the time-tested basic principle of the N 2 pumps, the material was fed to the mortar pump by the worm shaft and then applied with the aid of a hose and a spray gun. Thanks to powerful and reliable PFT machines, the staircase was quickly and efficiently rehabilitated.



Technical Data:

PFT N 2 V

Conveying capacity ¹ :	approx. 3 – 20 l/min
Conveying pressure:	max. 30 bar
Conveying distance ¹ :	up to 30 m
Conveying height ¹ :	up to 30 m
Drive:	3,0 kW vario 50 – 340 rpm
Power supply:	400 V three-phase current, 50 Hz
Dimensions L/W/H:	1,560 x 570 x 700 mm
Total weight:	150 kg

¹ depending on pump type, mortar quality, consistency and mortar hose diameter.