A Construction Site of Vast Size

The Landesbank Nord in the Middle of Hanover

Nord-LB: the Regional Bank in the middle of Hanover with its architecturally interesting outward appearance. The interior work on the numerous floors of the carcass is in full swing – with the help of PFT equipment.

A building of vast size is currently being consructed in Hanover, the capital of Lower Saxony. The Landesbank Nord (North German Regional Bank) is erecting a building with a useful area of around 40,000 m². As a visit to the construction site shows, „PFT Orange" is shining in many places. The new building of the „Nord-LB" was designed by the architectural firm Behnisch, Behnisch & Partner, located in Stuttgart.

The construction site is filled with life these months. The interior work is in full swing. A contracting combine, consisting of two painters` businesses, Grube GmbH & Co. KG, Hanover, and temps GmbH, Neustadt am Rübenberge, have succeeded in obtaining the order for the painting work. Both companies have considerable numbers of highly skilled workers and special machines. In the „painting combine", Grube and temps have joined their forces to master the challenges in the fields of organization, logistics and scheduling together. In addition to its own PFT machinery, the combine has rented several machines from Kurt König, Ronnenberg, and Beckmann & Co., Hanover, for this project.

PFT field engineer Jens Kiel and the Manager of the Sales Territory North, Klaus Uffrecht, supported both Bernd Burchardt and Peter lehmbach (Grube) and Reinhard Möller and Uwe Oertelt (temps) whenever it came to the selection of the most favourable machine combination for a specific task.

One of the hardest jobs was the „overhead insulation" of a total area of 3,700 m² on the bottom sides of the concrete balcony floors. This task was not only a great challenge to painters and other tradesmen, but it also made extraordinary demands on the logistics. Here the PFT system with its variety of combinations proved its superiority thanks to modular design.

Synchronous work: spraying with the PFT SWING and, in parallel, „overhead embedding" of mesh. This is the fast way of coating!

The PFT C 6000 container ensured the weatherproof storage of bonding and reinforcing mortar despite the restriction of space. From the container, the dry material was conveyed over distances of sometimes up to 125 m. On the lower floors, the painting combine used the PFT N 2 Vario mortar pump, with hoses up to 50 m in length, to spray the bonding and reinforcing mortar. From the 9th floor upwards, the dry mortar was conveyed to the PFT G 4 mixing pump and plastering machine over distances of sometimes up to 125 m with a PFT SILOMAT. Certain areas were coated directly with the aid of the PFT G 4, but usually this machine just served as a mixing pump for the floor on which is stood. The mixed mortar was fed to the hoper of a PFT SWING, which had been taken to the balcony shell. Then the material was sprayed to the concrete balcony ceilings using the PFT SWING.

This PFT SILOMAT machine works completely on its own. It conveys the bonding and reinforcing mortar even to the 13th floor, over distances of up to 125 m.

This logistic process saved a great deal of time and effort. The laborious transport of bags, the storage of bags on each floor, and the great physical strain of manual mortar mixing pump and application were eliminated. The special feature of the PFT SWING stainless steel pump is the output regulation with the aid of a turning knob. Everyone who has to coat different types of surfaces and requires the uniform application of bonding and reinforcement materials will appreciate this advantage. The finish coat, a Caparol 128,2 mm in grain size, was also applied with the PFT SWING in a pure „sprinkling technique". The supervising engineers were fully satisfied with the high-quality surfaces created in this way.

Another Major item in the programme of the painting combine was the coating ceilings, walls and supports with Caparol-Akkordspachtel SF. After all, this part of the order involved a total area of 22.000 m². However, the PFT SWING proved its worth once more. At an output adjusted to approx. 1.5 litres per minute, an air pressure of 4 bar, and with the aid of a 6-mm steel nozzle, an accurate spray pattern was achieved, which could easily be smoothed.

„The prerequisites for the accomplishment of such a large-scale project," said Hans-Joerg Maeder, general manager of Grube, and Ulrich Temps, general manager of temps, „are continual further training of the personnel and first-class machines with support from PFT specialist traders located close to the building site." So these two painters` businesses had the chance to successfully contribute to this large-scale project in their contracting combine.

PFT equipment also ensured a continuous material flow to the immense plaster-receiving surfaces in the interior. Step by step, the plastering teams of Schwalenberg + Sohn GmbH from Stuhr near Bremen applied 20,000 m² of ceiling plaster and 6,000 m² of wall plaster, in both cases KNAUF MP75, and 12,000 m² of KNAUF Betofinish levelling compound in the staircases. Junior manager Timo Schwalenberg had an average of eight plasters on site, who coped with their enormous work using three PFT SILOMAT and three PFT G4 machines.

There would have been other possibilities as well – but characteristically enough, even two „key trades" on this vast building site used PFT equipment from Iphofen to perform their tasks.

Two men, one PFT SWING: This trio coats enormous surface areas with Akkordspachtel. The bag mangle helps to completely empty the PE bags, while the long spraying lance ensures the convenient and uniform application of the material.