

Void-free joint filling with the PFT G 5 mixing pump for

the non-positive connection of precast concrete walls.

# PFT G 5 Fills Joints Eight Metres in Height



The PFT G 5 mixing pump proved its high flexibility in an unusual job in the village of Queienfeld (Central Germany), where a new production hall was built of precast concrete parts. All the walls and ceilings were prefabricated at the concrete factory on the basis of drawings and very quickly put up, installed or fixed on the construction site.

## Non-Positive Connection by Joint Filling

IB Bodenschatz, an insulating and jointing specialist based in nearby Presseck, was charged with the non-positive connection of the fixed precast concrete parts. The joints between the parts had to be filled. The joint filler used was supplied by concrete manufacturer Pagel Spezial-Beton GmbH, Essen (West Germany). This material, with a grain size of 0 to 5 mm, is recommended for the non-positive connection of precast concrete parts. According to the material data sheet, the contents of one 25 kg bag are to be mixed with only 2.5 to 3 litres of water and will immediately be ready for application.

Since the concrete joints were eight metres high, it would have been very time-consuming and totally uneconomical

to mix the material by hand and then fill the joints from buckets. So contractor Erwin Bodenschatz decided that the work had to be done with the aid of a machine.

Mathias Fuchs, a consultant of the local PFT construction machinery trader BIV Bau- und Industriegeräte Vertriebs GmbH, recommended using a PFT G 5 mixing pump. The high flexibility of this machine sparked Mr. Bodenschatz's interest: Today plastering, tomorrow grouting; today 8 litres per minute, tomorrow 80 litres - no problem if the PFT G 5 is fitted with the right pump unit. That sounded convincing!

## Easy-to-Change Pump Unit

For the application of the Pagel joint filler, the pump unit had to be changed. Since the material had a grain size of up to 5 mm, it was not possible to use a maintenance-free steel shell stator. Besides, the conveying capacity had to be as low as possible, to allow the mortar to fall to the very bottom of the 8 m concrete joints. It was also important to ensure a continuous application procedure, so that any air inclusions were avoided.

The PFT Stator D 4 3 with rubber shell and clamp proved suitable for this appli-

cation. The clamp was just minimally tightened, so that the material could be pumped upwards through a PFT mortar hose 35 mm in diameter and 13.3 m in length. This equipment helped the tradesmen to easily and, above all, quickly fill the 10 x 10 cm concrete joints.

Equipped with a suitable screw pump, the PFT G 5 easily conveyed the material upwards.

