

# 4,100 m<sup>2</sup> Facade Restoration with Pneumatic Conveying Technique



The facade of a 16 floor old people's home in Kassel had to be renovated. The exterior asbestos board cover had to be replaced by an exterior insulation and finishing system. The client, GWG charitable house building society of the town of Kassel Ltd. gave the order to a work association of three well known stucco and plaster companies of Kassel. These were precisely the companies Carl Kalb GmbH & Co. KG, Ziehe GmbH and Heinrich Luckey GmbH.

First of all the old facade was removed and the asbestos boards were disposed. There were 4,100 m<sup>2</sup> of EIFS,

*Not only brightened up at the exterior, but also improved with regard to heat insulation: Old people's home in Kassel.*

system Heck, consisting of 10 cm mineral wool boards, glue, armation mortar, mesh and a scratch plaster as final coat to be applied. These works were organised and completed in 60 working days. Manual work for these three leading specialist companies was out of the question due to time and cost implications. PFT technique had to be provided.

For the machine technical solutions the PFT supplier, company Frank-M. Thiel, Maschinen und Baugeräte, Vellmar near Kassel, supported the working association with advice and practical assistance. They had to cope with a distance of up to 54 m between the silo position and the bag

stocking area. No problem with PFT technique! They just put three mixing pumps G 4 onto the roof of the high-rise building. Three other mixing pumps PFT G 4 stood on the floor, distributed around the high-rise building, in order to work from the bottom to the top. They met then in the middle.

Following the PFT principle to convey as far as possible dry and as short as needed wet, three PFT Silomat 140 took over the material transport to the PFT G 4 machines on the roof. The glueing and the armation mortar was pneumatically blown without problem over a conveying distance of 75 m to the installed PFT G 4 machines.

Dipl.-Ing. Gerhard Flögel, managing director of Carl Kalb and also the co-ordinator of the working association was very satisfied by the perfect execution and was full of praise for the impressive technique and the good service of the PFT supplier Thiel "The PFT G 4 is so perfectly designed, that we could plaster without changing position to the top as well as to the bottom, down to the pedestal".

Stuccoer master Luckey was at the building site every day and could follow the progress of the building with satisfaction.

*Intelligent solution: three of the six PFT G4 machines have been placed on the roof.*

