

PFT's N2V gets a blast of fresh air

How to spray foam mortar coats efficiently

Large foam mortar construction units allow for rapid progress at the job site, and are thus big favorites, especially in industrial buildings. Foam mortar facades are given a finishing coat that works as a weather protection device, and is pleasing to the eye as well. Working with local specialists and tradesmen, the company Hebel AG offers services in foam mortar systems.

One of these local firms, malerhorn, is situated in the Upper Franconian town of Bad Steben. Paint and lacquer specialist Michael Horn, who is 38 years old, has been Head of the family-owned company since 1990. He has a workforce of nine employees. His wife Korinna Horn runs the office. The specialist painter company was founded in 1913 by Mr. Horn's great-grandfather.

Michael Horn is not easy to satisfy with normal high-quality work. He keeps on making constant improvements that will lead to more efficiency. malerhorn processes foam mortar coats with a modified version of PFT's N2V. The modifications to the open conveying pump were Mr. Horn's own idea.

The finishing coat consists of fine plaster that levels and fills up the gaps in the foam mortar. This coat is first rubbed down with a lamb-skin roll, and thereafter with a finishing texture roll. The surface thus takes on the structure of fine knobs.

"We convey 1.8 kg of fine plaster coating per square meter," says Mr. Horn. "The job would take much longer if done manually with a roll. That's the reason we need a machine like the N2V." Efficiency at the job site means harnessing and utilizing an air volume of between 450 and 500 liters per minute.

First easy trick: Instead of one air compressor, the N2V uses 2 compressors from PFT's construction kit. In order to maintain the stability of the machine despite it being moved around the job site, both compressors are mounted on the sides of the machine, and are operated in coordination with it. An



additionally mounted control box monitors power supply.

Second easy trick: The fine finishing coat is a pre-finished material that is delivered in pails of 25 kg each. The plaster has a fluid consistency. Michael Horn invented a lid for the pails in order to keep the material from drying too quickly in bright sunshine, or at high air temperature levels.

All good things come in threes. So PFT's foam mortar sprayer was modified to acquire an extra 70° angle. "We have been able to save a quarter of our time with all these additional innovations," says Michael Horn gladly.



Depending on its needs, the firm malerhorn modifies PFT's N2V machine by using three easy tricks.



Technical data:	PFT's N2V
Conveying capacity*	approx. 3 - 60 l / min
Conveying pressure	30 bar max.
Drive	3.0 kW variable, 52-338 min*
Power supply	400 V rotary current, 50 Hz
Dimensions (length/width/height)	1.560 x 570 x 700 mm
Total weight	150 kg + approx. 48 kg ® 2 compressors

* depending on motor rpm, mortar quality, consistency, type of pump and mortar hose diameter.