



The PFT G 4 mixing pump kept things moving on a container yard in Iphofen.

An area of 300 m² received a jointless STABAPHALT® mortar surfacing.

Machine-Application of Spezial Mortar to Container Yard in Record Time

Surfaces subject to high static loads or frequent heavy goods vehicle traffic are stressed to a higher extent than conventional roads. This applies in particular to container yards, loading platforms or parking areas for heavy goods vehicles, which have to be adapted to withstand the stress. The application of special asphalts, semi-rigid surfacings and other well-proven materials offers practicable solutions for a reliable long-term use of such areas.

The PFT G 4 mixing pump ensured a trouble-free flow of STRABAPHALT® mortar.



The civil engineering firm STRATEBAU GmbH, based in Regensburg and represented in many other parts of South Germany, specializes in suitable solutions for both road construction in general and industrial surfacings bearing high loads.

Jointless Surfacing Technique

For the construction of a container yard on the premises of building materials manufacturer Knauf Gips KG in Iphofen, the site supervisor of the local branch of STRATEBAU GmbH, chartered engineer Dieter Blass, recommended a highly stress-resistant asphalt type. STRATEBAU applied this high-stability asphalt to an area of approx. 300 m² in the usual technique with its state-of-the-art machines. To further increase stability, a specially modified mortar had to be washed into this supporting asphalt layer. The material used was STRABAPHALT®, a grouting compound designed for heavily trafficked surfaces. It was supplied in 25 kg bags and mixed using a G 4 mixing pump provided by Knauf PFT. For optimal flow properties, a lump-free consistency had to be obtained by mixing the material for a relatively long time. PFT Consultant Otto Iff recommended fitting the PFT G 4 with an R 7-1.5 rotor-stator system. An excellent result was achieved with the water flow rate set to 1,250 litres per hour. The PFT G 4 provided a continuous flow of material over distances of up to 30 metres. With a PFT RONDO pouring hose, the mortar was roughly applied to the surface. Three workers then spread the

material with large PFT floating trowels, so that it was optimally washed into the spaces between the asphalt particles. The mixed slurry was poured at a rate of approx. 60 litres per minute or 15 litres per square metre. The STRABAPHALT® mortar easily enclosed the asphalt particles and completely filled the supporting asphalt layer. The most impressive feature was the short application time: Within about one hour, the material was applied to an area of 300 m² and properly washed in.

The PFT G 4 mixing pump cleans very quickly and easily. The workers were able to leave the job site after a cleaning time of only 20 minutes.



Optimally mixed, the slurry easily flowed into the spaces between the asphalt particles.