

Smoke-Gas Chimney at Power Plant, Finland

POLYUREA

Client	Jyväskylä Energian, Jyväskylä
Coating Contractor	TEKE OY, Valkeala
Project	Smokegas-Chimney Jyväskylä Power Plant
Surface	approx. 600m ² Steel Chimney
Construction	August 2011
VIP System	QuickFill QuickPrime 2K-Epoxy SF QuickSpray Industrial



Project Description

The Company Juväskylä Energian was searching for a new system for an inner lining with resistance against the chemicals in the smoke and gas as the current Epoxy system was getting dated after 6 years and loses its effectiveness due to lower smoke gas temperatures. For this reason Finland's leading technological partner for the power industry TEKE OY advised the customer to use Polyurea a as a long term solution. TEKE choose to use the QuickSpray Industrial (aromatic), a 100% Polyurea 2-K Surface Coating based on Polyamine technology.

The work was carried out in 3 easy steps:

1. The Chimney was sponge blasted to a grad of SA 3 to both clean and abrade the existing surface.
2. The damage in the steel was either welded or repaired using the QuckFill system and than primed with TEKE's own 2K Epoxy system.
3. Then the aromatic Polyurea QuickSpray in grey was applied using a Graco Reactor HXP-2 hot spray machine to the main affected areas of the smoke gas flow.

This process could be completed in a very short space of time. Through using the QuickSpray the application could be completed in the very short shut down time of the power plant.

An extra bonus fort he customer is the fact that the rest of the chimney can now be completed during the shut down period in the summer of 2012 using the same system.

