

CHIMNEY LINER

Derakane Epoxy Vinyl Ester Resins – Case History



Location / Year

Installed in 2001 at Eggborough power plant, U.K.

Fabricator

Plasticon The Netherlands B.V., The Netherlands.

Fabrication

Filament wound segments were assembled to a duct liner in the chimney. The sections were manufactured using an integrated reinforcing ring. The structural layer is based on **DERAKANE 470** epoxy vinyl ester resin, and the Chemical Resistant barrier is based on **DERAKANE 411** resin.

Service Conditions

Flue gas (including H₂O vapors, SO₂, NO_x, HCl, HF etc.).

Operating temperature 40-150°C (105-300°F) during respective wet flue gas and bypass operation.

Design pressure +/- 6 mbar (+/- 0.08 psi).

Technical Data

Segments of 5.9 m diameter x 6 m height (19.3 x 19.6 ft)

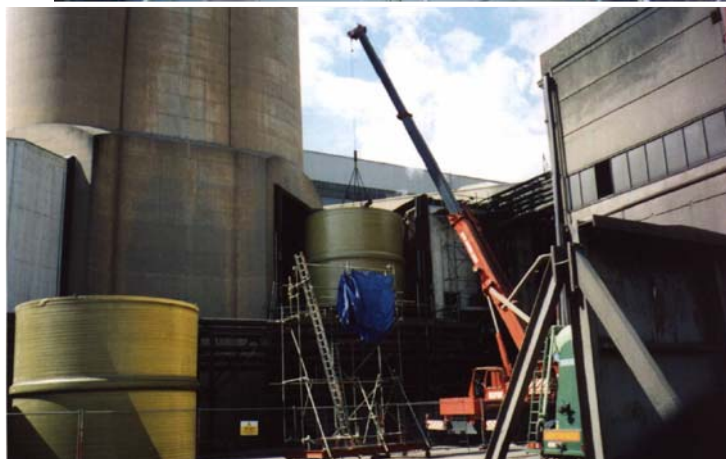
Total height of chimney liner: 180 m (590 ft).

Comment

DERAKANE 470 resin

was selected because of its good retention of mechanical properties at elevated temperature in combination with its proven long term chemical resistance.

Last update in 2001.



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