

Manufacturer Certificate

Declaration of no objection:
Any harmful gas formation for the use of PURSEAL

WEBAC® PURSEAL is a 2 component polyurethane resin based on polymeric methylene diphenyl diisocyanate (MDI) and pre-polymerized polyols without solvents. Both components do not contain any volatile ingredients.

As isocyanates are considered critically with respect to occupational safety requirements we do use polymeric MDI with very low vapor pressure only. Therefore the flashpoint of the isocyanate component is higher than 200 °C and the vapor pressure is lower than 0.01 mbar. Thus, the occupational exposure limit of 0.05 mg/m³ will not be exceeded even at higher application temperatures. The polyol component has a flashpoint of higher than 101 °C and a vapor pressure of 1.072 mbar (20 °C). The occupational exposure limit of 44 mg/m³ will not be exceeded as well.

The curing reaction is a chain-growth polymerization – without separation of volatile, perhaps harmful molecules. During the curing process no formation of volatile side products are obtained.


In contact with water a formation of a small amount of carbon dioxide (CO₂) can be obtained. Carbon dioxide is a natural occurring gas and also present in the breathable air. Under normal conditions at the working site no impairment is expected.

Concluded: no harmful gases evolve from the basic components or are released during reaction. Thus, during injection there is no danger for the atmosphere or negative effects for breathing inside of the tunnel.

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WEBAC-Chemie GmbH



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