



# Pessin Biogas plant

## Data and facts

Company	PORR Verkehrswegebau GmbH
Type	Industrial construction, industrial area
Runtime	07.2014 - 12.2015
Principal	Schmack Biogas GmbH

[Project report online](#)

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# Protection of the groundwater.

## Strict requirements.

As the storage of the raw materials on the areas provided for this purpose leads to a very acidic environment with a pH-value  $\text{con} < 3$ , strict requirements apply to the construction and design of the surface pavement and the underlying drainage for these areas. Due to the requirements for impermeability, the pavement of the driving silo chambers was constructed without joints using acid-resistant mix.

Both the asphalt base course and the surface course were acid-resistant, low in carbonate and thus tendered without the addition of recycled material. In addition, a void content of less than 4% of the finished asphalt base course and less than 3% of the asphalt surface course was required. Under the acid-resistant unbound base course, the storage area was sealed against the subsoil by means of a 1 mm thick PE film based on the VAWS specifications in order to prevent the acidic substrate residues from seeping into the soil. The liquid residues of the substrate are led via jointless asphalt channels into the inlets of the welded PE coiled pipes DN 800, from which the substrate is returned to the recycling circuit. The uncontaminated precipitation water is channelled into infiltration basins via a separate system.

## Impressions



## Image notes

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Biogas plant, Pessin

PORR constructed the biogas plant's outdoor facilities, including drainage, in accordance with the strict requirements.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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