

Composites

- chemical resistance
 - corrosion protection (also against bio corrosion)
 - protection against abrasion
 - temperature shock stability
 - special technical functions (e. g. heat and electrical conduction)
 - design
- industrial plants
 - technical equipment
 - semi-finished products
 - architecture



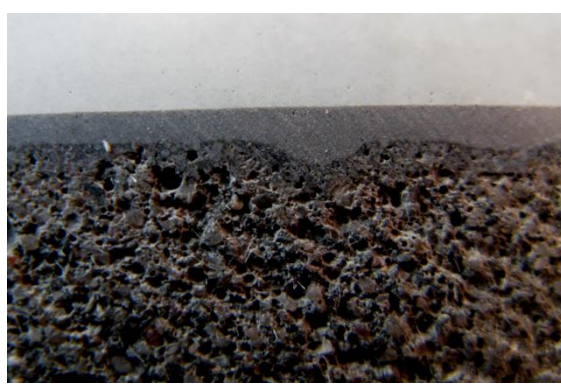
INNOVENT

Technology Development

**Research Department:
Primer and Chemical
Surface Treatment**



composite roller of a dryer section of a paper machine (photo: xperion)



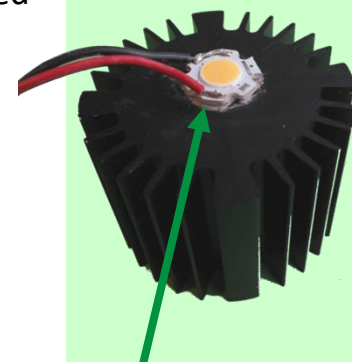
Concrete coating for biogas plant (cross section polish)

Materials with a broad and interesting profile of properties are received by combination of reactive resin with functional filler.

This includes high barrier effect or chemical resistance of corrosion protecting coatings for chemical and offshore plants also for adjusting special mechanical and thermomechanical properties for armouring or tool coating and polymer coated magnetic particles and composite systems with high thermal conductivity.

Our range of services:

- development, modification and optimization of custom-taylored special composites
- selection / development / optimization of pretreatments
- optimization of application
- comprehensive investigation and characterization of composite materials: stress tests (mechanical tests, salt spray test (SST), Xeno-/UV radiation test, tests of resistance to thermal shock, climate, chemicals, ...) methods (DMA, DSC, dilatometry, molecular spectroscopy, mechanical analytical techniques as tensile/tension/compression, thermal conductivity,..)



high heat conductive composite material for bonding of a cooling element to a high power LED

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