

Ceramic wear protection materials for any type of wear



Floor and side wall linings with cast basalt (pictured left) or with hard ceramic (pictured above).



SC Hard ceramic

Suitable in cases of

- _ medium-level abrasive wear
- _ fine-grain bulk solids
- _ service temperature up to 500°C

Advantages:

- _ smooth surface, improves easy flow
- _ high abrasive and pressure resistance
- _ resistance to acids and alkalis
- _ frost resistant, resistant to corrosion

Areas of application:

flotations, separators, chutes

SC Cast basalt

Time-tested and economical in cases of

- _ high abrasive wear
- _ transport of medium to coarse materials
- _ service temperature up to 350°C

Advantages:

- _ extremely abrasion resistant
- _ smooth surface which improves easy flow
- _ resistant to corrosion and moisture
- _ resistant to acids

Areas of application:

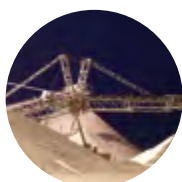
pipings, cyclones, separators, bunker, chutes

All cement surfaces of sewage systems, pump sumps and purification ponds, such as walls, stairways and transitional sections may be equipped with a wear and corrosion protection lining using cast basalt or hard ceramic tiles of various thicknesses. This ensures that all cement surfaces are durably protected against mechanical and biogenic sulfide corrosion.

The company Th. Scholten GmbH also produces, supplies and installs wear protected pipes and pipe systems for all areas in your purification plant.



Foundry | Steel



Minerals



Cement



Coal



Abrasion and biogenic sulfide corrosion eats away at your spiral troughs ...

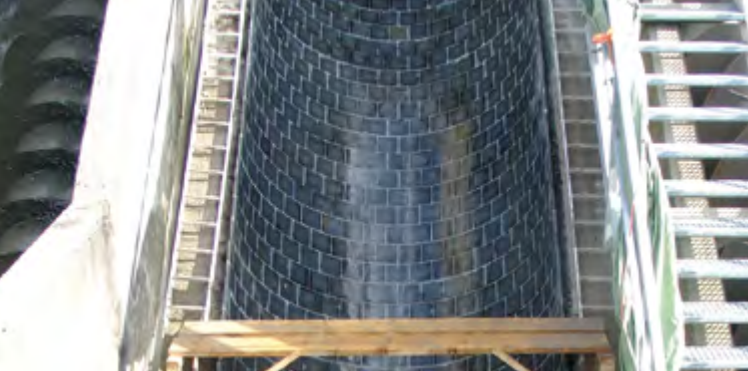
... we'll deal with that - with cast basalt and for good!



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Spiral trough lining with cast basalt



Lined chute



Spiral trough with cast basalt lining

Cast basalt has long proved a successful material for the lining of spiral troughs in purification plants. Cast basalt lined spiral troughs are a low-budget and durable solution to abrasion, corrosion and chemical stresses.

Additional advantages:

- _ high compressive strength
- _ smooth surface
- _ zero water absorption
- _ noise reduction
- _ low coefficient of expansion
- _ dimensional accuracy, due to segment prefabrication
- _ permanently excellent service efficiency of the spiral pump
- _ straightforward installation

Spiral troughs with various diameters and any length can be provided with a cast basalt lining.

The patented installation procedure combined with comprehensive instructions render it possible to even carry out the cast basalt lining on site with local fitters.

For larger spiral trough diameters, it is advisable to carry out the installation of the cut-to-fit segments by means of a crane. Special, TÜV-tested and CE-marked crane slings are used for this operation.

The prefabrication of the 180° segments is effected in precise forms (CNC-milled). All joints are equipped with a high-grade epoxy resin mortar. The sling allows the precise adjustment of the trough angle, so that the element which is to be installed can easily be fitted to the already existing trough segments.

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We manage wear protection.

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