

The background image shows a high-temperature industrial setting, likely a blast furnace or casting bed. Molten metal is being poured from a central channel into a large container. The scene is characterized by a strong orange and red color palette, with bright yellow and white highlights from the intense heat. The structure is made of metal with various railings and platforms. Three white circles are overlaid on the image: one at the top center, one on the left side, and one at the bottom right.

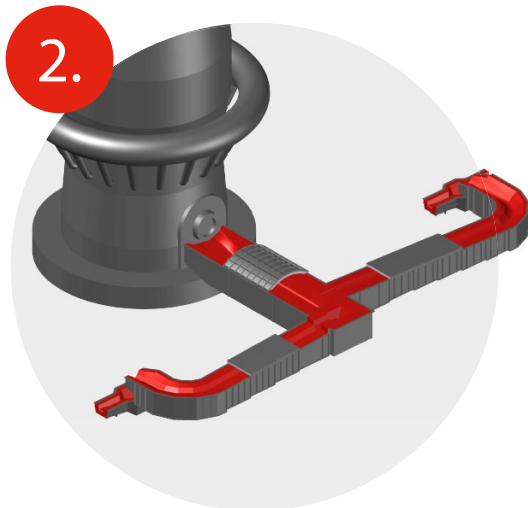
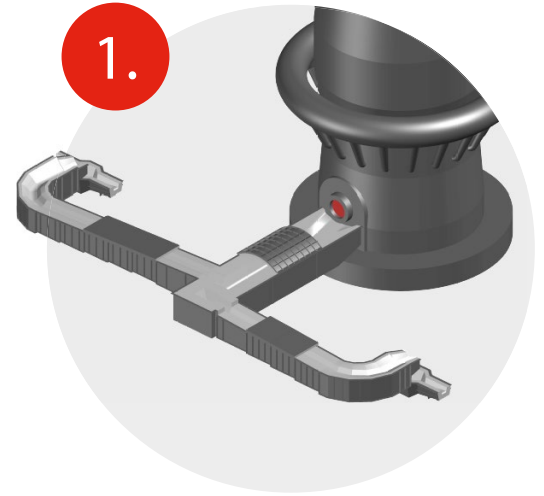
průmyslová keramika

REFRACTORIES FOR
THE CASTING BEDS
OF BLAST FURNACES

1. Tar-free taphole clays

EKOPLAST

Taphole clays with a binder based on synthetic resins that do not release carcinogenic substances. For closing the tapholes using either the soaking bar method or the drilling technique. Highly resistant to erosion; during tapping the hole does not significantly increase the size of the original cross-section; calm tapping without the formation of excessive smoke. An indicative specific amount of consumption is 0.4 kg of taphole clay material per 1 ton of pig iron flowed.



2. Easy-to-install refractory castables for the runners of the blast furnaces

ULTRABET PK-B

Special refractory concrete with a high durability intended for both main and ancillary iron runners and also for slag runners. This refractory concrete enables both rapid installation and tempering, which its application also extends to single-taphole furnaces. In practice, 6 hours after the installation of the refractory concrete, it is possible to carry out the tapping. Indicative of its durability is the cca. 150 – 200 thousand tons of pig iron flowed on the main runner without the need for any repairs.

2. The guniting mix for repairing blast furnace runners

ŽÁROBET G-F

This guniting mix has a low degree of material rebound during its installation and also high resistance to both liquid iron and to slag. Ideally it is used in combination with our Ultrabet PK-B concrete, by means of which the durability of a runner can be achieved, that corresponds to more than 300,000 tons of pig iron flowed. Another usage is its application to a common refractory base for blast furnace runners that require minor repairs.

2. Ramming mixes for runners

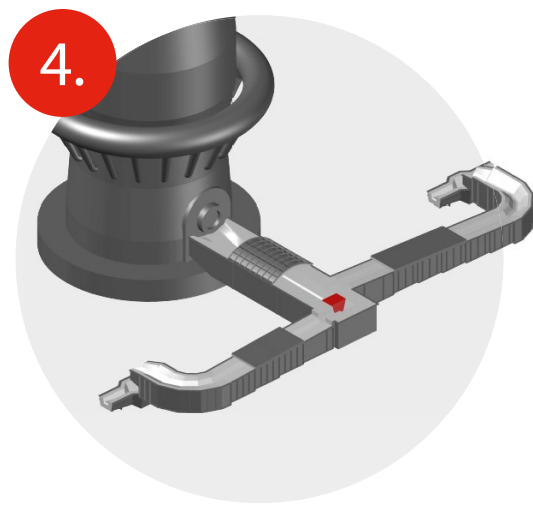
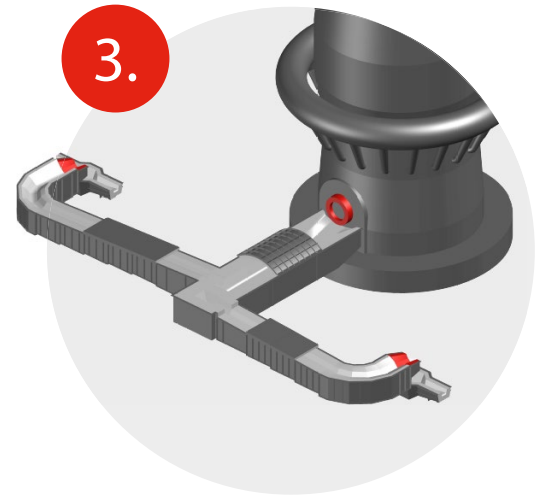
PK-V

This is a universal ramming mix for runners that is currently used mainly for ancillary iron runners and for slag runners. Indicative of its durability is the cca. 50,000 tons of pig iron flowed without the need for any repairs.

3. Plastic material for demanding applications

PLASTOBET RM

This is a highly resistant plastic material that is utilised for the most demanding applications. It is suitable for the preparation of runner terminals with a resistance of up to 700,000 tons of iron flowed and also for repairing the taphole, thereby reducing the leakage of the taphole clay.



4. Castable for demanding applications (e.g. skimmer)

ULTRABET RM

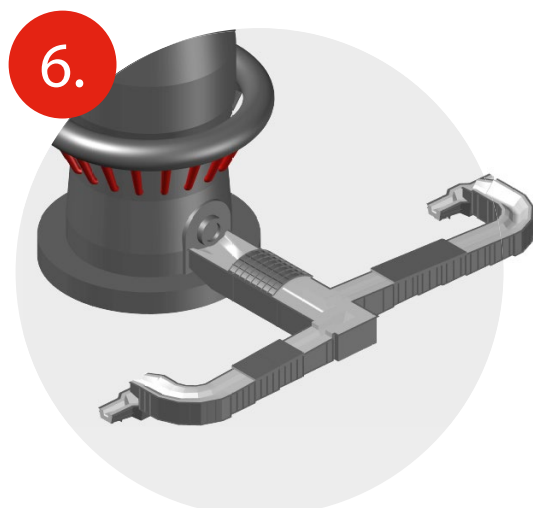
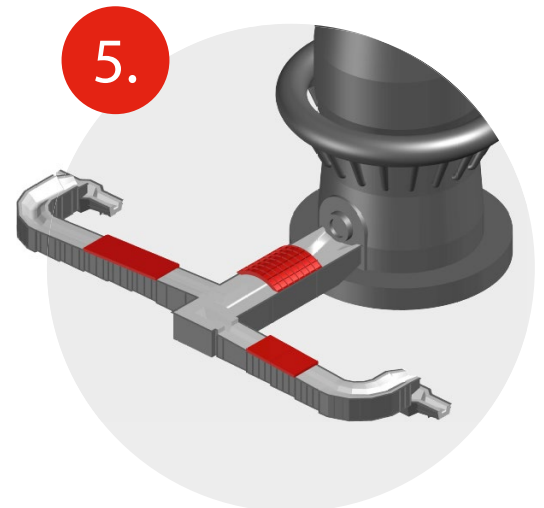
Castable with especially high resistance against liquid metal and slag. Suitable for preparation of the most demanding parts of runners, e.g. skimmer or runner terminals. Can be installed rapidly with minimised time of installation and tempering in same manner as ULTRABET PK-B.

5. The castables for lining the covers of the runners

VP-L casting compound

VP-T guniting mix

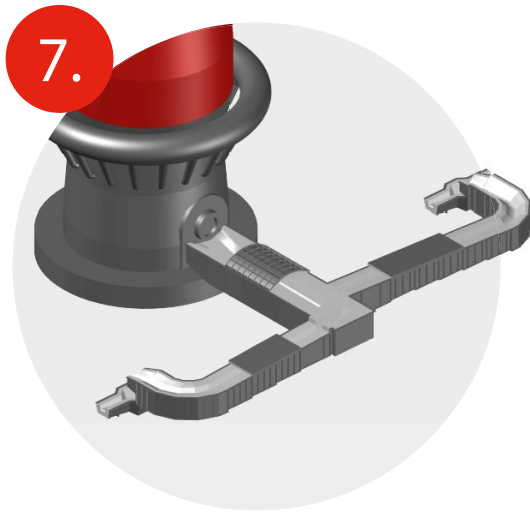
These are used for casting or guniting the protective refractory coatings on the metal parts of the covers. They are also suitable for implementing ongoing repairs to the damaged layers.



6. Castable for lining of fittings

MEBET AR-C

Castable suitable for preparation of tuyeres linings. Is typical by easy workability and long service life commonly exceeding 2 years of service.



7. Injection materials for blast furnaces repairing

INJEKTMIX 1500-A

INJEKTMIX B-SiC

Materials suitable for local repairing of worn parts of the blast furnace's inside lining by injecting. Useful mainly for filling of eroded parts blast furnace, e.g. exposed cooling plates.

Refractory castable for sinter plants

MEBET AG-H

Material developed for preparation of agglomeration ignition heads linings. Ensures long service life of the ignition head.

Coating the nozzles of pig iron torpedo ladles

CHEMOBET PM

It is used as an ongoing protective coating for exposed nozzles and also for the protection of other parts of the torpedo ladle's lining that are reachable by guniting.

Plastic material for less demanding applications

PLASTIMAZ

A plastic material with a wide range of uses; e.g. for plugging the tuyeres when controlling the operation of a blast furnace, for sealing the moulds during the casting of concrete in the runners or for screeding the damaged lining that is not in direct contact with the melt.