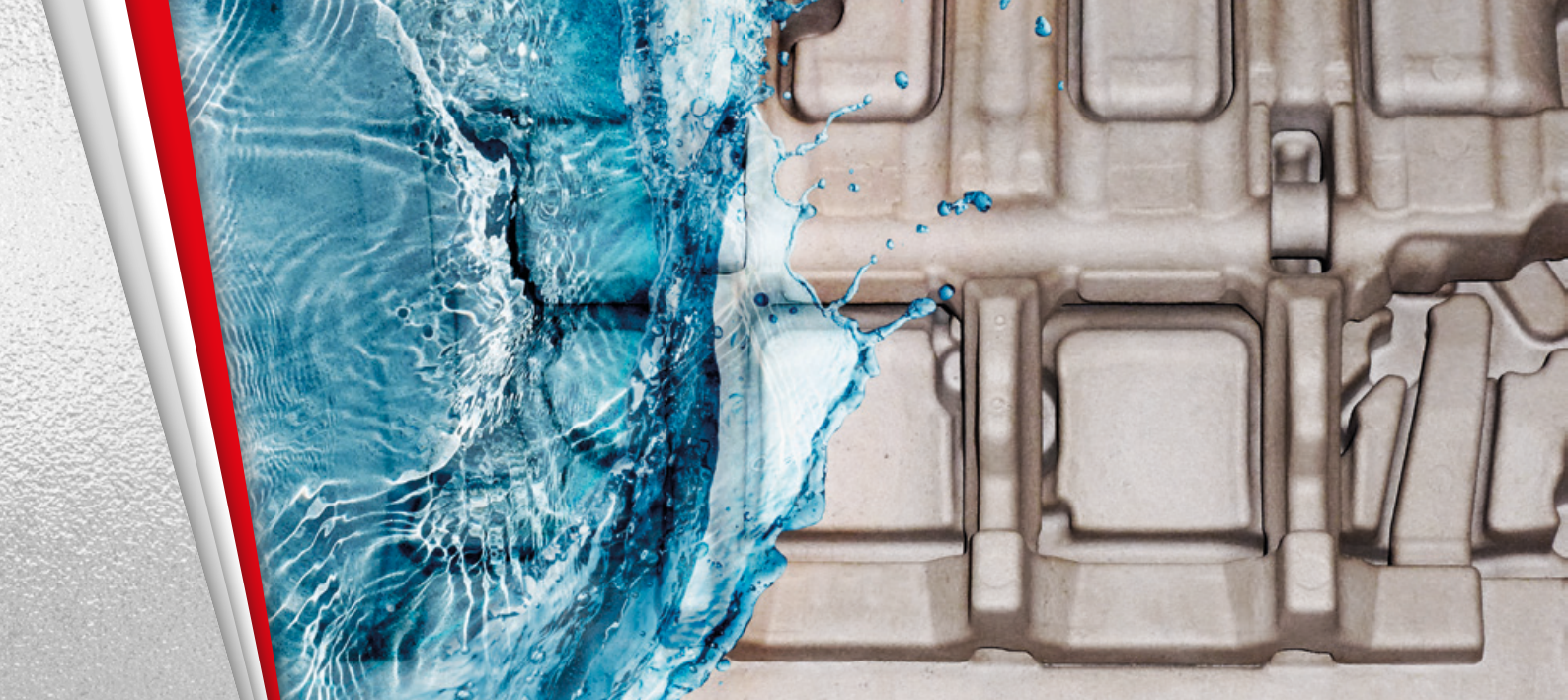


Coatings

Modern refractory materials for all applications





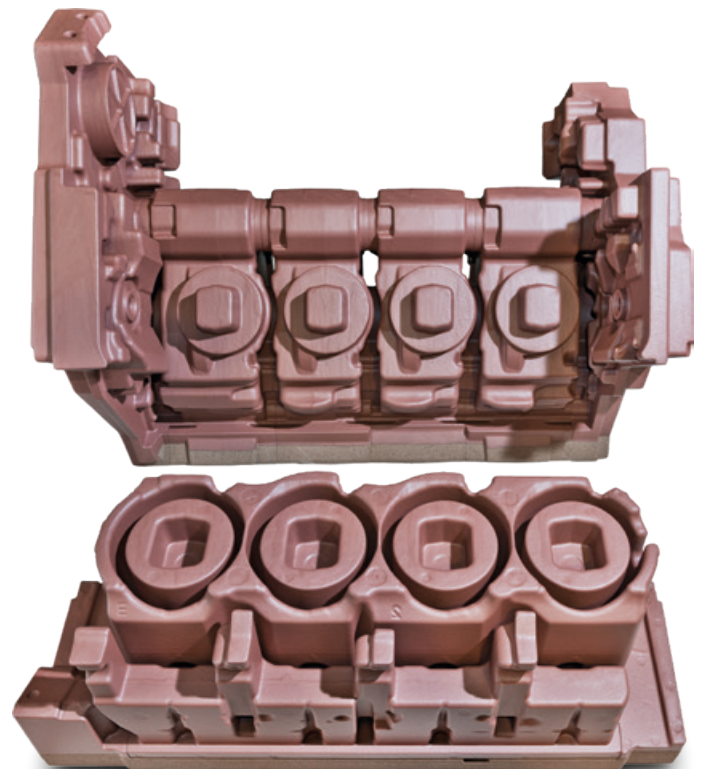
Versatile product portfolio for outstanding casting quality

Coatings are refractory mould materials used as release layers between the mould and the molten metal. Their function is to prevent metal-mould reactions, reduce casting defects and achieve high-quality casting surfaces.

As castings are becoming increasingly complex and quality requirements are even higher, it is essential in most cases to use coatings adapted to the process. The HA Group offers a versatile product portfolio for this purpose using state of the art coatings for all types of alloys and each application.

During the development of new products, our goal is to focus on known customer requirements achieving sustainability.

Based on our many years of experience and our comprehensive product portfolio, we will be happy to select the optimum coating for your application. Please do not hesitate to contact us!



Our products

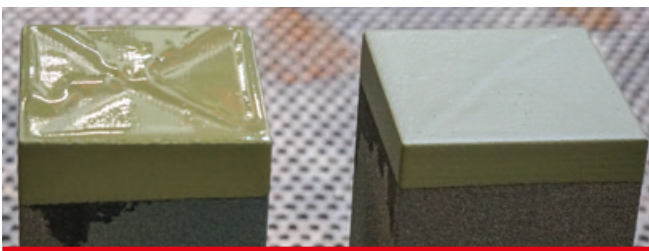
- water- or alcohol-based
- for light and heavy metal, steel and cast iron materials
- more than 200 products for a wide range of applications

Series casting

- drop-free coating surfaces for manual and automated processing
- reduction of casting defects
- reduction of energy costs through optimized drying properties
- reduction of formaldehyde emissions during drying process

Hand moulding

- applicable from thin- to thick-walled castings
- achievement of smooth casting surfaces
- visible contrast between wet and dry
- reduction of casting defects
- wide variety of refractory materials for a wide range of applications
- user-friendly
- „intelligent“ processing properties due to self-smoothing of drops



Lost-Foam / Full mold

- good processing properties
- low sedimentation
- good adhesion to polystyrene patterns
- high layer thicknesses possible after a single application
- avoidance of cracks during drying

Centrifugal castings

- suitable products are available from the production of cylinder liners to roll castings
- production of different surface structures (smooth, rough, mushroom structure, etc.) possible



Die coatings

- gravity and low-pressure die casting
- from highly insulating to highly thermally conductive for solidification and microstructure optimization
- structured to smooth casting surfaces possible
- increasing the lifetime of the dies

Special products

- coatings for additive manufacturing (3D printing)
- bismuth / tellurium coatings for controlled solidification
- against „white surface“ defect
- to reduce erosion
- against metal penetrations
- for cooling molds to prevent oxidation
- powder coatings
- refractory coatings for tools, troughs, slag pots and all types of refractory materials

Combine targeted and profit

Depending on the specific application, our coatings can be combined to achieve the optimum casting surfaces and thus the best possible benefit for our customers.

Your advantages

Improvement of casting quality

By using our alcohol or water-based coatings, the quality of the casting surfaces can be improved and casting defects are avoided. This reduces the fettling costs significantly.

Performance competence

In addition to reduce casting defects, process optimization is a major factor of our coatings. For example, the drying of cores and moulds can be accelerated by using specially developed water-based coatings. Furthermore, the furnace temperature or drying time can be reduced, processes accelerated and with it costs saved. An added advantage of these newly developed coatings is the clear contrast between the wet and dry surfaces. This ensures that even when water-based coatings are used, completely dried cores and molds are used, thus avoiding gas defects caused by residual moisture



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Application competence

Technical support

In addition to the development and improvement of our products, the focus on working in partnership with our customers is in the first place.

Partnership

As a partner for the foundry industry, we always work close to our customers, which allows us to identify product and process improvements directly. This is the only way to find the optimal technical solutions for our customers and their individual concerns. Consequently, we have been working with renowned equipment manufacturers for years and offer the corresponding technical expertise to enable you to make the best possible application and increase the quality and efficiency of your processes.

For example, HA and its partner Neuhof Gießerei- und Fördertechnik have developed a compact coating preparation unit (CCU) that enables semi-automatic or fully automatic easy preparation of water and alcohol-based coatings.

