

PERMANENT RELEASE COATING FOR CORE BOXES

FOR LONG LASTING RELIABLE RELEASE EFFECT

In cold box core production, release effect is provided by frequently sprayed release agents, mostly based on silicon oil. These agents don't resist the erosion of core sand. Opposite the shoot nozzles, they disappear quickly. Resin starts sticking and this area must be cleaned by hard methods. Huge amounts of agent are consumed but don't solve the issue.

FR54 is a cured, well adhering, robust release coating for metal cold box core boxes. It is non-wettable by core resins.

The coating resists the physical attack by a rebound effect. It is non-wettable by resins. In that way it resists several hundred - up to **2000 shots**. Core production has not to be stopped for cleaning intervention over the entire production batch.

FR54 grants a **reliable and efficient processing** in cold box core production. The tools are protected against erosion wear and hard cleaning. No agent dust on the production floor is to be expected.



Looks wet and sticky, but it is just the opposite!

FR54 spacer varnish is applied on metal surface of the core box. To improve adherence, a primer coat is available.

FR54 is available in disposable spray cans and as liquid in metal containers. The coat is applied outside the production in a well vented area of the tool shop. It takes 2 hours for curing at room temperature.

When hardened, the coated core box is put into production. Then, no other release agent is sprayed at the production floor.

The coating provides reliable release effect in the production of very filigrane cores for cylinder head casting as well as for (much) bigger cores. Coat layers are between 30µm and 200µm.

As no liquid agent is required, it is a dry system. No slurry of sand and agent will affect the core box tightness, no contamination of ambience is to be expected.

Once worn, the coat can be easily removed by ice blasting.

Let your process flow!

Benefit

- No cleaning intervention during production
- Improved productivity
- Improved tightness
- Reliable processing
- Dry system



Distributed worldwide by ASK Chemicals

ASK CHEMICALS
We advance your casting

Coatings for efficient processing

CeraNovis GmbH
Untertürkheimer Str. 25
D 66117 Saarbrücken

Tel.: +49 68 1500 1500
Fax: +49 68 1500 1599
✉ : sales@ceranovis.com

www.ceranovis.com

