

NON-STOP ALUMINIUM WHEEL CASTING

FULL NANO-CERAMIC, ONE-LAYER COATING SYSTEM

Avoiding interruptions in fully automated processing is one primary goal in Aluminium wheel casting. Each stop affects product quality, productivity and efficiency. Mould coating renewal is the most frequent reason to stop. Therefore, reliable, long lasting coatings are required.

In nearly all coatings, the main binder is based on sodium-silicate. These binders tend to weaken under very high mould temperatures, as obtained in LPDC wheel casting.

Nanocomp RIMBOP is a full nano-ceramic coating. It can be sprayed on the mould metal at 180–450°C — mostly without any primer coating. It is a single-layer coating, developing its full advantage in very hot moulds. Roughness is provided by a very fine but insulating filler.

So, according to recordings in foundries 750¹ wheels can be produced without touch-up and more than 2,000¹ without shot blast intervention. Wheel finishing is excellent and does not degrade by touch-ups.

¹ recorded in wheel foundry

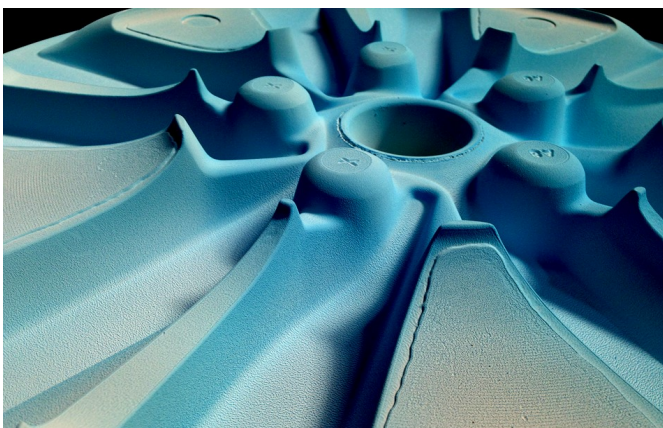
Nanocomp RIMBOP is especially designed for wheel casting in LPDC. The nanoceramic binder becomes very robust when reaching very high mould temperatures.

There are different grades of roughness available.

RIMBOP#2 is a very smooth coating. It is dedicated for the lower core to grant a very fine and homogenous finishing. The brilliant wheel surface quality does not degrade after several touch-ups.

RIMBOP#5 is a more coarse coating for other mould segments to ensure mould filling. It provides enhanced insulation.

The coatings can be used in all LPDC processes as conditions are mostly similar. In any case where high mould temperatures affect coat service time, RIMBOP will improve these.



Benefit

- One layer coating
- Highly extended service time of coating
- Smooth and homogenous finishing
- Improved productivity & quality
- Improved OEE

Ceramic 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

