

Resil System for the Inorganic Hot-Box process

The patented system Resil has been developed for the inorganic hot-box process. It is free from aromatic substances, VOC, formaldehyde, sulphur and nitrogen.

The system is composed of two components: a liquid binder based on inorganic silicates, used at 2% b.o.s. and an inorganic powder activator at 0.4-0.9%.

The curing process is completed by blowing hot air generating a very stable inorganic structure.

Reaction mechanism

RESIL liquid binder + CATASIL activator



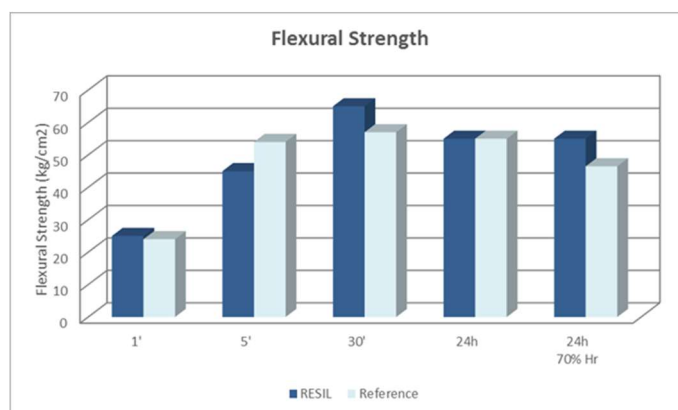
Polysilicate + water

The new recently patented system offers several advantages over traditional inorganic systems:

- cost reduction;
- stability of cores;
- excellent flow of the mixture;
- improved bench-life;
- good shake out.

The Resil binding system is recommended for small and medium size casting of aluminium, ferrous and non-ferrous alloys.

The sand resulting from the casting process can be reclaimed by mechanical-thermal regeneration.



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