



FURANE BINDERS

Product range for ferrous and non ferrous foundries

VESUVIUS





ESHANOL* and FUROTEC furane binders

for ferrous and non ferrous foundries

The range of furane resin products developed to suit the wide variety of foundry applications ensures that customers are able to choose the best available solution to suit their individual process and material requirements.

ESHANOL and FUROTEC binder

The emission of fumes during application and pouring is very low. All resins have a low viscosity and are therefore economical and simple to apply. The sand mixing is easy even with older continuous and batch mixers.

ESHANOL and FUROTEC application

The binding characteristics of ESHANOL / FUROTEC bonded sand are so high that the lowest addition levels - normally below 1% - are sufficient to produce moulds and cores of good quality. Almost all mould and core sizes are possible including those produced with flaskless moulds.

Benefits

- + Low viscosity
- + Clear liquids
- + Wide range of catalysts
- + High plasticity
- + Low addition rate
- + Low emissions
- + High productivity at lowest addition rates
- + Optimised sand mix homogeneity, especially in conjunction with DUOMIX binder dosing system

ESHANOL and FUROTEC properties

ESHANOL & FUROTEC furane binders are suitable for the latest moulding methods from rapid resin application with strip times in minutes up to continuous filling of large sand moulds directly from the mixer.

ESHANOL

A range of phenol-free binders which offer excellent strength, ensuring consistent production of even the most complicated cores and moulds with reliable dimensional accuracy and the highest product consistency. The adjusted reactivity of the products ensures binder consumption is minimised and productivity can meet the requirements of the modern foundry. Products are formulated in accordance with the latest environmental legislation. The viscosity of the products is optimised to provide improved sand flowability, whilst sand compaction is eased. The latest developments afford this binder type with as yet unheard of pattern strip characteristics.

FUROTEC

A range of furane self set binders based on special strength, reactivity and plasticity requirements meeting latest environmental legislations.

CATASET

CATASET are a range of acid catalysts for ESHANOL & FUROTEC furane binders. Minimal addition rates are required. Sand bench life and curing time can be optimised to suit the foundry requirements. In combination with the DUOMIX online set time control unit, the highest degree of possible productivity combined with lowest mould and core manufacturing costs, can be ensured.



Compliant to the highest casting quality demands



Strength check on cured mould and core



Mixed sand bench life control

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Research and development

As the quality demands from end-users of castings increase, it is essential that binder technology keeps pace. Foseco continually invest resources in the research and development of innovative solutions to the problems of today and tomorrow. Furane binder development laboratories work closely with in-house casting facilities to ensure new product developments fully meet the customer's needs.

These laboratories also provide a wide range of services to support the use of our resin systems in the foundry. For example, Foseco is the only supplier who can provide information on plasticity of its self setting binder system.

Consistency

Controlled and automated manufacturing processes ensure that products are supplied to a highly consistent specification, eliminating batch to batch product variations.

Flexibility

A broad range of delivery options are available to suit the needs of the individual customer.

Quality assurance

Accredited quality assurance systems ensure optimal testing of finished products, and provide a framework for continual improvement and further process optimisation.

Conclusion

FUROTEC and ESHANOL furane resin binder systems can help foundries to reduce process costs whilst improving casting quality and productivity. At the same time, the highest environmental standards are achievable, even in steel foundries.

DUOMIX SYSTEMS
proactive binder
dosing system for
use on continuous
mixers



Fit for fast loop
moulding lines
corresponding to all
kinds of set time
requirements



Highest
dimensional
accuracy



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