



HIGH PERFORMANCE ORGANIC SELF SET BINDERS

FURAN BINDERS

PRODUCT RANGE FOR FERROUS AND NON FERROUS FOUNDRIES

High plasticity

Low addition rates

Low emissions

High productivity

Tailor-made products



VESUVIUS



ESHANOL* and FUROTEC furan binders

for ferrous and non ferrous foundries

The range of furan 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 furan 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 furan 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 furan 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

ESHANOL and FUROTEC furan binders

Product range for ferrous and non ferrous foundries

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. Furan 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 furan 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



*FOSECO, the Logo and ESHANOL are trade marks of the Vesuvius Group, registered in certain countries, used under licence. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system of any nature or transmitted in any form or by any means, including photocopying and recording, without the written permission of the copyright holder or as expressly permitted by law. Applications for permission shall be made to the publisher at the address mentioned.

Warning: The doing of an unauthorised act in relation to a copyright work may result in both a civil claim for damages and criminal prosecution. All statement, information and data contained herein are published as a guide and although believed to be accurate and reliable (having regard to the manufacturer's practical experience) neither the manufacturer, licensor, seller nor publisher represents nor warrants, expressly or impliedly: (1) their accuracy/reliability, (2) that the use of the product(s) will not infringe third party rights, (3) that no further safety measures are required to meet local legislation. The seller is not authorised to make representations nor contract on behalf of the manufacturer/licensor. All sales by the manufacturer/seller are based on their respective conditions of sale available on request.

© Foseco International Limited 05/11.

Foseco International Limited
Drayton Manor Business Park,
Tamworth, Staffordshire,
England B78 3TL
Phone: +44 (0)1827 262021
Fax: +44 (0)1827 283725
www.foseco.com

Please contact your local Foseco team

COMMITTED TO FOUNDRIES

VESUVIUS