



ADVANCED FURANE RESIN BINDER TECHNOLOGY

REFANOL

RESIN BINDERS FOR FERROUS AND NON FERROUS FOUNDRIES

No toxic labelling requirement

Less odour in the workplace

Improved pattern release

Lower acid demand

Reduction in SO₂ emissions



REFANOL

Furane sand binder

REFANOL resin binders are a range of self setting systems based on polymerised Furfuryl Alcohol.

REFANOL resin binders are fully compliant with the latest European legislation regarding the labelling reclassification of foundry resins that contain free Furfuryl Alcohol.

In combination with our range of CATASET acid catalysts, REFANOL serves as a reactive cold set binder suitable for the production of moulds and cores in both ferrous and non ferrous applications.

REFANOL resin binders are compatible with sand reclamation processes based on dry and thermal attrition methods.

Benefits

- No toxic label required
- Lower odour in the workplace
- Improved stripping properties reducing the risk of damage to mould and patterns
- Reactive binders having a lower acid demand
- Reduced sulphur in the system leading to reduced emissions and less risk of sulphur reversion defects

REFANOL application

REFANOL resin binders are adaptable to all mixing methods although high speed continuous mixers are preferred.

REFANOL resin binders should be cured with acid catalysts from the CATASET range. The curing time is influenced by sand and ambient temperature and the grade of catalyst.

Typical addition rates for REFANOL resin binders would be between 0.7% and 1.2% based on the specific application requirement.

REFANOL binder

A range of grades are available differing in nitrogen, water content and reactivity to meet the requirements of most applications. All grades contain less than 25% monomer Furfuryl Alcohol. All REFANOL binders are characterized by their excellent plasticity properties.

CATASET acid catalyst

A full range of blended acid catalysts are available for use with REFANOL binders. Factors influencing catalyst choice are production requirements, sand type, metallurgical restrictions and environmental acceptance.

REFANOL moulds have sharp contours



Mould and core package made with REFANOL binder



Finished casting made using REFANOL binder



*FOSECO, the Logo and REFANOL 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.



COMMITTED TO FOUNDRIES

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

VESUVIUS