

Etingal[®] S

Product description	Defoamer for the paper industry Etingal [®] S is a low-viscosity defoamer that can be drip feed into coating colours. It can be added at the concentration at which it is supplied, or it can be diluted in advance with water.
Chemical nature	Mixture of an ester and an emulsifier

Properties

Physical form	Yellowish emulsion
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Technical data (not supply specification)	Refractive index	DIN 51423	1.4230 – 1.4265
	Density	DIN 51757	0.960 - 0.980 g/cm ³
	Acid value	DIN 53402	< 2 mg KOH/g
	Boiling point		~ 264 °C
	pH-value		~ 5.0

Application

The defoamers used in coating have to be able to form a stable emulsion in coating colours, as otherwise they can separate out and form droplets on the surface of the coating. If these droplets are transferred to the applicator roll, the coating colour will be unable to wet it and blank patches will be formed on the paper surface

Etingal® S is the emulsifiable version of Etingal® A. Aqueous emulsions of Etingal® S are very effective for combating foam, and they are easy to handle and process. The effectiveness of Etingal® S gradually decreases in alkaline media at temperatures above 50 °C.

One method of adding Etingal® S to coating colours is to add it undiluted at the very end of the mixing process. It should be stirred briefly to ensure that it is finely dispersed. The foam in the coating colour disappears very quickly.

If Etingal® S is to be metered continuously during the coating process, we would recommend diluting it 1:1 with water in advance. The most effective means of adding dilute emulsions of this type to coating colours is to use a drip feed. It is inadvisable to dilute any more emulsion than can be consumed in two hours. Dilute emulsions can cream slightly if they are left to stand for more than three hours, but this can be reversed by shaking or stirring.

The rate of addition depends on the type and consistency of foam in question. Normally, between 0.1 % and 0.5 % is required, expressed as a proportion of the volume of the coating colour. If it is used for on-machine coating, Etingal® S should preferably be added to the coating colour being returned to the coater head, after it has been cooled.

Storage

Keep container tightly closed and dry; store in a cool place.

- Protect from temperatures below: 5 °C
- Protect from temperatures above: 40 °C

According to our experience over many years, the following materials are the most appropriate for tanks, pumps and pipework.

Steel: AISI 304, 304 H, 316 and 316 Ti stainless steel.

Plastics: Polyethylene, polypropylene, polyester (Palatal® P6, Palatal 410). PVC is unsuitable.

Contacts worldwide

Asia
BASF East Asia Regional Headquarters Limited
36/F, Two Taikoo Place,
Taikoo Place,
979 King's Road,
Quarry Bay, Hong Kong
formulation-additives-asia@basf.com

North America
BASF Corporation
11501 Steele Creek Road
Charlotte, NC 28273
USA
formulation-additives-nafta@basf.com

Europe
BASF SE
Formulation Additives
67056 Ludwigshafen
Germany
formulation-additives-europe@basf.com

South America
BASF S.A
Rochaverá - Crystal Tower
Av. das Nações Unidas, 14.171
Morumbi - São Paulo-SP
Brazil
formulation-additives-south-america@basf.com

Validity

This Technical Data Sheet is valid for all versions of the Etingal® S.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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