



Premium detackification products from hebro.

Product group overview.



Detackification products.

The basics.

In many industrial environments, for example in woodworking, metalworking and plastics, wet-painting is preferred for quality reasons. By the very nature of the process, not every particle of paint lands on the components being painted. This overspray is held in suspension in the surrounding air. State-of-the-art detackification products ensure that, in water-wash spray booths, these particles are washed out of the air by recirculated water.

The range of applications covers all known paint systems – from the most basic solvent-based paints and lacquers to clearcoats that are difficult to detackify and the latest in water-based paints, such as hydro-soft paint systems.

The objective of coagulation is to bind tacky paint particles as a detackified substance, which virtually eliminates malfunctions in paint-lines and knock-on effects in the production process.

To this end, a detackification agent is added to the recirculating water system. Depending on the composition and the type of paint being used, the system uses various mechanisms to separate the paint particles from the water. These particles then have to be removed from the water to enable more paint to be absorbed.



Premium products from hebro chemie for all needs relating to water treatment for paint detackification are effective and state-of-the-art.

We call them „premium“ because every single one of them incorporates the combined knowledge and skill of our company, gathered from decades of experience and uncompromising customer focus.

Our customers know this. They know they will get reliability and safety at a consistently high level. With every single hebro product.



Facts worth knowing about hebro[®]prenol.

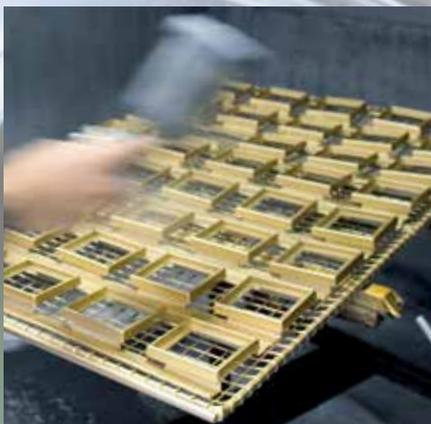
Product advantages that count.

Irrespective of the individual process in use, our specialty products ensure that overspray is effectively and safely removed, which primarily makes a key contribution to preventing the build-up of contamination in machine components.

The secondary benefits of the product are equally impressive:

hebro products used in connection with paint detackification

- maximise the service lifetime of the paint-line.
- enable cost-saving, environmentally friendly detackification.
- guarantee highly efficient operation thanks to low dosages.
- demonstrate maximum functionality and high levels of dependability.
- enable longer periods of water usability, which reduces costs arising from machine downtimes.
- reduce the amount of water that has to be disposed of.
- enable simplified disposal of the coagulated paint sludge.
- reduce waste disposal costs thanks to higher quality paint sludge.
- reduce odours by inhibiting the decay process.
- when mixed in production quantities, they are not corrosive and comply with all health & safety regulations.



Two procedures, one objective: maximum purity.

Sedimentation and flotation.

It is essential to differentiate between different technical coagulation processes. Before they can be removed, the coagulated substances either form a sediment and sink to the bottom or float on the surface.



Sedimentation analysis



Flotation analysis

Sedimentation.

In sedimentation booths, the exact dosage of the right product ensures the machinery cannot clog up. The product ensures very fine flocculation which is easily pumped and this makes cleaning of the system a simple matter. The flocculated sludge settles in the appointed sections of the tank. As a rule, this is then pumped off as part of the water recirculating process and the sludge is then disposed of.

Flotation.

In a flotation system, the flocculated particles are continually removed via a weir where the specially balanced composition of hebro products ensures a high degree of separation. This process ensures long service life of the booth machinery and low contaminations of the recirculating water. At the same time, microbial attack is minimised because the residual contamination is so minor that bacteria have almost no opportunity to gain a foothold.

Flocculants and defoaming agents.

Depending on the type of paint being sprayed and the kind of paint system, it may be necessary to use a post-flocculant to improve flocculation or sludge consistency.

As one would expect, hebro chemie also offers a range of products for this purpose. As a rule, they are based on polymers and cause the particles of a dispersion to form larger-size clusters. If the paint is a water-based paint, use of post-flocculant is always recommended because the water-based paint is first broken down into its finest particles and then, by means of the post-flocculant, recombined to make a substance that can be treated.

This series of products is rounded off by carefully formulated defoaming agents, which are essential in particular in connection with water-based paints. Finally, highly effective biocides* are available to enable any bacterial contamination to be combated directly and effectively.



The more you know, the more you can achieve.

How hebro products help with coagulation.

hebro products for water treatment in connection with paint detackification are well known for the range of applications they cover. It is good to know the advantages when it comes to selecting economical solutions.

Solvent-based paints and lacquers

- Special-purpose substances in the coagulant detackify solvent-based paints and lacquers, which makes them easier to separate out from the water.

The ideal choice of detackification product will depend on the type of paint and the paint equipment in use. Change of colour shade during the coagulation process is possible and presents no problems.

Water-based paints

- Water-based paints are added to the water. Effective coagulation involves precipitation of paint particles from the water and creation of treatable floc. This prevents excessive saturation of the recirculating water.

Due to the large number of water-based paints available with differing compositions, we provide detackification products made up of special combinations of ingredients to match different cases.

Mixed applications

- To enable customers to optimise their production processes, hebro chemie offers not just appropriate detackification products but also carefully formulated flocculants and other special additives.

Flocculant conditioner

- Flocculation conditioners improve flocculation and are virtually essential components when water-based paints are being processed.

Biocides*

- Biocides* are used if there is bacterial contamination of the recirculating water as a result of external conditions.

Defoaming agents

- Defoaming agents prevent foaming in various paint systems.

Water conditioners

- Water conditioners are special additives for improving the quality of the recirculating water long-term.

*Use biocides with great care. Before use, always read the label and product information.

Our services – more safety for you.

We continue to support you after you have purchased products from us.

Besides numerous products and accessories relating to paint detackification, hebro also offers corresponding services to guarantee optimised problem-solving and longer water service lives:

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- On-site support by expert field sales staff.
 - Instruction and training of operatives on-site.
 - Support with technical problems by our own service engineers.
 - Continuous further development through our own research.
 - Comprehensive analyses in our own service laboratory.
 - Support with modifications to unprofitable plants.

Thorough analyses in the hebro service laboratory ensure that the detackifier selected is the right one for the plant and paint.

Services include:

- Analysis of existing booth water to determine pH value, microbial contamination and solids content.
- Analysis of paints being used.
- Creation of a laboratory report on the condition of the booth water and product recommendations for detackification of the paints in use.
- Selection of suitable defoaming agent.

In conclusion, economy and ecology at the highest level.

Profit in many ways from **hebro**[®]prenol products
for water treatment in connection with paint detackification.



Place your confidence in tried-and-tested detackification made by hebro chemie and reap multiple benefits – thanks to our excellent reliability and product safety that are designed to enhance the profitability of both your project and your company.

This is achieved through ease-of-use which focuses on human health, on the one hand and the use of environmentally-friendly ingredients that enable you to make an active contribution to environmental protection – without lifting a finger.

Every single day.

Further information is available from these sources:

- on-site advisory visits by our field safes staff
- specific, technically-orientated product literature
- our website: www.hebro-chemie.de
- via our telephone consulting service on +49 2166 6009-121



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■ **hebro** quality products relating to

Paint detackification products and water treatments

hebro [®] prenol FL 1500	Detackification product. For solvent-based paints and lacquers and water-based paints.
hebro [®] prenol FL 1625	Detackification product. For solvent-based paints and lacquers and water-based paints.
hebro [®] prenol FL 115	Post-flocculant to produce treatable floc. For water and solvent-based paints and lacquers.
hebro [®] prenol C 3900	Post-flocculant to produce treatable floc. Emulsion polymer.
hebro [®] prenol FL 440/80	Post-flocculant to produce treatable floc. For water-based paints.
hebro [®] d-foam-Serie	High-performance defoaming agent. For all water-based systems.

Details of other **hebro**[®]prenol products and aids on request.

Find out more about the other hebro product groups. You won't be disappointed.

- **Coolants and metalworking fluids**
- **Cleaning and care products**
- **Maintenance and repair products**

Do you have any questions?
Just ask us:

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