

TECHNICAL PRODUCT INFORMATION

Cartabond GH Liquid

Crosslinker for water soluble binders during surface treatment of paper and board

1. Scope of Application

Due to the reactivity of its two aldehyde groups, **Cartabond GH liquid** can react with amino and hydroxyl groups. It can therefore be used for crosslinking sodium carboxymethyl cellulose, starch, polyvinyl alcohol, casein and animal size.

In the paper sector, the product is applied in its existing form or diluted with a little water. When using **Cartabond GH liquid** it should be borne in mind that the products already converts to glycolic acid under alkaline conditions at room temperature which reduces efficiency. The optimum effect is achieved in the pH region 7.0-8.0.

Cartabond GH liquid is applied in paper finishing and is readily compatible with water-soluble binders and synthetic resin dispersions. It improves the water-resistance of surface applications. Compared to other hardners its advantages are no odour, non-volatile and good efficiency.

2. Specifications

Every batch of **Cartabond GH liquid** is checked to ensure that it meets the specifications below.

pH	1.8 - 3.5
Assay (% , by potentiometric titration)	39.5 - 40.5
Density	1.260 - 1.275 kg/l
Total acidity	<0.19 % (in acetic acid)

3. Additional Data

The information in this section is not subject to the constant monitoring nor is it part of the specification for this product, as such this is information is given solely to describe the product.

Appearance	clear liquid
Colour	approximately 50 APHA
Formaldehyde	approximately 100 p.p.m.

4. Application – metering

4.1. Pigmented coating slips

Cartabond GH liquid is most suitably applied in its existing form or diluted with a little water to the ready-to-use coloured coating slip containing co-binder. Good mixing after addition is essential prior to use.

The applicable amount is between 2 and 4% **Cartabond GH liquid** (commercial product), related to the water-soluble binder component in the coating slip. Good coating water fastness is achieved at a pH of the coloured coating slip between 7 and 8. As a rule, there is no increase in viscosity of the coating slip if **Cartabond GH liquid** is added to the ready-to-use coloured coating slip.

4.2. Surface sizing

Solutions for surface sizing of paper and board based on sodium carboxymethyl cellulose, polyvinyl alcohol and starch can be improved in wet strength by an addition of 3-10% **Cartabond GH liquid**, related to the water-soluble binder.

5. Special remarks

Cartabond GH liquid complies with Recommendation XXXVI of the BfR “Paper, board and cardboard for food packaging”.

Cartabond GH liquid also complies with the FDA regulation 21 CFR §176.170 “Components of paper and paperboard in contact with aqueous and fatty foods“, with an upper limit of 6% related to starch, casein, etc. and FDA 21 CFR §176.180 “Components of paper and paperboard in contact with dry foods“, without any limitations.

6. Safety and Transport

When handling **Cartabond GH liquid**, the usual precautions for handling chemicals should be taken. **Cartabond GH liquid** product regulation.

On contact with the skin, wash off immediately with plenty of water. Should it come into contact with the eyes, rinse with plenty of water (eye rinse bottle) and consult a doctor. Detailed information on toxicology and ecology is given in the Safety Data Sheet.

7. Storage

Storage stability: 6 months in closed packaging.

The optimum storage temperature is 20-25 degrees Celsius if storage is too cold, triglyoxal hydrate may crystalize out but can be redissolved by heating.

This product must not be stored near oxidising agents.



Archroma Management LLC
Packaging & Paper Specialties
Neuhofstrasse 11
4153 Reinach
Switzerland
Tel : +800 128 72737
Tel: +41614697218
Email: paper@archroma.com

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Archroma makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Archroma's products for its particular application. * Nothing included in this information waives any of Archroma's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Archroma products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Archroma. *For sales to customers located within the United States and Canada the following applies in addition: NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE.

® Trademark of Archroma registered in many countries
© 2013 Archroma