Technical Data Sheet
Liofol CS 22-422

PRODUCT DESCRIPTION

Liofol CS 22-422 has the following product characteristics:

Technology	Natural Rubber Latex
Product Type	Coldseal Coating
Condition	water-based
Components	One component
Application	Coating for food packaging applications
Cure	Non-curing
Appearance	white

Application Areas:
Liofol CS 22-422 can be applied to a wide range of paper for confectionery, ice cream and food applications.

Recommended Materials:

- Paper

Product Properties:
Liofol CS 22-422 has good adhesion and seal performance to a wide range of paper substrates. It has been formulated to release from inks without a release lacquer; this is dependent upon paper and suitable inks. Dry coating weights of 3 to 5 g/m² usually yield a fibre tearing bond.

TECHNICAL DATA

Liofol CS 22-422:

Solid Content, %	51 to 55
Viscosity, BS4 cup 4, sec.	24 to 30
Volumetric Density, g/cm³	0.9 to 1.1
pH value	10.0 to 10.5

Compliance with food packaging regulations:
Under specific conditions (FDA, EC-guidelines and BfR recommendations) the product is suitable for the sealing of food packaging materials.
A conformity letter with further details is available on request.
The responsibility for compliance with the specific conditions is with the converter and not with the adhesive supplier.

DIRECTIONS OF USE

Preliminary Statement:
Prior to application it is necessary to read the Safety Data Sheet for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Protective Measures:
This material contains ammonia and inhalation can cause some discomfort and must be avoided

Dilution:
Liofol CS 22-422 is supplied in "ready to use" concentration. If dilution is needed, add small amounts of water to which 0.15% ammonia has been added.

Mixing:
Liofol CS 22-422 must be well stirred before use. Although a very effective antifoam is incorporated in this product it may become necessary under certain circumstances for additional antifoam to be added. If foam occurs the addition of 0.1-0.2% of Defoamer 40-147 is recommended.

Application:
Liofol CS 22-422 can be applied by roller coater or direct pattern gravure systems.

Application Weight:
Recommended dry application weight may range from 3 to 5 g/m².

Drying:
For optimum results substrates coated with Liofol CS 22-422 must be thoroughly dried. As with all waterbased products an increasing temperature profile should be used in the drying tunnel. The maximum airflow through the drier should be utilized and this air should be vented directly to the atmosphere rather than recirculated.

Seal Characteristics:
Liofol CS 22-422 will seal rapidly under low pressure on suitable packaging lines. It will form strong bonds in excess of 300 g / 25 mm on most substrates.

Cleaning:
Apparatus and equipment should be cleaned before Liofol CS 22-422 dries using cold or warm water preferably containing some detergent.

STORAGE

Shelf life:

Shelf-life (in original packaging), months	6
Refer to expiry date on original packaging.	
Frost-Sensitive	Yes
Recommended Storage Temperature, °C	10 to 25

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If the cold seal adhesive is kept beyond the recommended shelf life, it is not necessarily unusable, but Henkel should be consulted to determine whether the adhesive is fit for purpose.
Coated webs should be stored in a cool place protected from the light and kept from dust. Under these conditions the coated film should remain satisfactory for use for at least 6 months.

Classification:
Please refer to the corresponding safety data sheets for details on:
Hazardous Information
Transport Regulations
Safety Regulations

ADDITIONAL INFORMATION

Copper:

Substrates should be of low copper content; no contact parts of the equipment should be made of copper or its alloy.

Copper contents of 5 ppm and above in the adhesive layer can cause degradation.

Product Range:

Apart from Liofol CS 22-422 we can offer the following Liofol products for the manufacture of film/foil laminates:

- Solventbased, solventless and waterbased laminating adhesives for flexible packaging and special applications
- Adhesives for High Gloss Lamination
- Primer for Extrusion and PVDC-coating
- Heatseal Coatings
- Special Cleaning agents

To obtain product specifications please ask for the relevant technical datasheets.

Disclaimer:
The Information provided herein, especially recommendations for the usage and the application of our products, is based upon our knowledge and experience. Due to different materials used as well as to varying working conditions beyond our control we strictly recommend to carry out intensive trials to test the suitability of our products with regard to the required processes and applications. We do not accept any liability with regard to the above information or with regard to any verbal recommendation, except for cases where we are liable of gross negligence or false intention. This datasheet replaces all former versions.

Reference 0.0

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