

SAFETY DATA SHEET

ACRYLAC MATT COATING

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME ACRYLAC MATT COATING
 PRODUCT NO. 57260840
 APPLICATION Waterbased Emulsion Coating
 SUPPLIER STEHLIN HOSTAG INK UK LTD
 UNIT D4 LINKMEL CLOSE
 QUEENS DRIVE INDUSTRIAL
 ESTATE
 NOTTINGHAM
 NG2 1NA
 Tel : 0115 9860477
 (0115 986 0477 Mon- Fri 24 hrs)
 Fax : 0115 9862681
 e-mail: sds@stehlin.co.uk

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|------------------------|--------|---------|---------|----------------|
| Acrylic Resin Solution | | | <30% | - |
| Aqueous Wax Dispersion | | | 10-15% | - |
| Glycol | | | 10-15% | - |
| Polymer Emulsions | | | 40-50% | - |

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

No Symptoms Consult a doctor

INGESTION

There may be irritation of the throat. Wash out mouth with water

SKIN CONTACT

There may be mild irritation at the site of contact. Wash immediately with plenty of water and soap and rinse thoroughly.

EYE CONTACT

There may be irritation and redness Bathe the eye with running water for 15 minutes

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials. Use water spray to cool containers.

SPECIFIC HAZARDS

In combustion emits toxic fumes

PROTECTIVE MEASURES IN FIRE

Wear self contained breathing apparatus. Wear Protective clothing to prevent contact with skin and eyes.

6 ACCIDENTAL RELEASE MEASURES

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PERSONAL PRECAUTIONS

Refer to protective measures listed in sections 7 and 8. Turn leaking containers leak side up to prevent the escape of liquid.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Contain the spillage using bunding.

SPILL CLEAN UP METHODS

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7 HANDLING AND STORAGE

STORAGE PRECAUTIONS

Store in cool, well ventilated area. Keep container tightly closed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY EQUIPMENT

Respiratory protection not required.

HAND PROTECTION

Protective gloves are recommended.

EYE PROTECTION

Safety glasses. Ensure eye bath is to hand.

SKIN PROTECTION

Protective clothing should be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------|----------------------|------------------|------|
| APPEARANCE | Liquid | | |
| COLOUR | White | | |
| ODOUR | Mild Ammonial | | |
| SOLUBILITY | Miscible with water. | | |
| VISCOSITY | viscous | FLASH POINT (°C) | >100 |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat.

MATERIALS TO AVOID

Strong oxidising substances. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

In combustion emits toxic fumes

11 TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY

Refer to section 4 for routes of exposure and corresponding symptoms

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Negligible ecotoxicity

MOBILITY

Readily absorbed into soil

BIOACCUMULATION

The product is not bioaccumulating.

DEGRADABILITY

The product is biodegradable.

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13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

14 TRANSPORT INFORMATION

GENERAL Not classified according to transport regulations for dangerous goods.

15 REGULATORY INFORMATION

RISK PHRASES

NC Not classified.

SAFETY PHRASES

NC Not classified.

UK REGULATORY REFERENCES

Note - the regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16 OTHER INFORMATION

ISSUED BY

B.A Hayden HSQE Manager

SDS NO. 10752

SAFETY DATA SHEET STATUS

Approved.

DATE 16/02/10

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



ACRYLAC[®] MATT 57260840

Water-based emulsion coating

Application

For wet-on-dry and wet-on-wet coating in sheet-fed offset presses with coating unit.

Recommended drying equipment: hot-air blower and extraction unit

Substrate

Paper/board

Special properties

Quick drying, good wet-blocking resistance and good rub resistance.

Good matt effect with uniform quality, particularly on board.

(Please also note section entitled „Special instructions“ on page 2.)

Specifications

| | 57 0608/40 |
|---|------------------------|
| Viscosity / draining time s ¹⁾ | approx. 40 s |
| pH | 7.4 - 8.4 |
| Density | 1.02 g/ml |
| Double-sided printing | yes |
| Heat-sealing resistance, uncoated PP film ²⁾ (Acrylate-coated films are not suitable) | good |
| Rub resistance | good |
| Application rate, wet ³⁾ | 4 - 8 g/m ² |
| Thinner | Water |

1) As-delivered viscosity at 20 °C, well stirred (draining time per DIN 53 211, 4-mm Ø nozzle)

2) Test conditions: 130 °C, 1 s; 0.5 bar / coated cellulose board, preprinted with oxidative-drying ink

3) depending on applications process, substrate and ink coverage

Cleaning

We recommend you use ACRYLAC[®] Cleaner 10 T 0045 to clean rollers, rubber blankets, forme cylinders, etc. (see the instructions for use and Technical Information sheet 10.9.01).

To achieve a consistent print result, we recommend you regularly perform a thorough washup of all rollers when using screen rollers.

Auxiliaries

Various auxiliaries are available to help you apply the water-based emulsion coating:

| | |
|--|---|
| ACRYLAC® -Cleaner 10 T 0045 | - see Technical Information sheet 10.9.01 |
| Retarder / Anticrazing Agent 10 T 0422 | - see Technical Information sheet 10.9.03 |
| Defoamer 10 T 0423 | - see Technical Information sheet 10.9.03 |
| Wetting Agent / Thickener 10 T 0690 | - see Technical Information sheet 10.9.03 |

Special instructions

Water-based emulsion coatings are generally slightly alkaline. The offset inks used must therefore be alkali-resistant (DIN 16 524, Part 2). One exception to this is the process ink colour magenta: despite their low level of alkali fastness, these inks can be overcoated with water-based emulsion coatings without any problem.

The coated surfaces can be glued and are suitable for finishing with stamping film (depending on the adhesive, stamping film and processing conditions; we recommend you carry out a test under field conditions beforehand).

Heat-sealing resistance and heat resistance depend upon many parameters, which is why we recommend you carry out tests under field conditions in this regard, too.

If there is a possibility of the package contents or external influences (e.g. moisture, detergents, grease, etc.) having potentially negative influences on the print, you must likewise conduct appropriate tests to determine suitability.

Please refer to Technical Information sheet 10.5.01 for general application instructions and further information about the drying process.

The coating has a shelf life of 6 months from delivery if the container is not opened. After opening the container, the coating should be used up as quickly as possible.

The water-based emulsion coating must be stored in its original container in a dry, cool but frost-free place. Storage temperatures higher than 30°C have the negative effect of causing the coating to thicken and must therefore be avoided.

Stir well before use.

The product is not considered a hazardous substance within the meaning of current EU legislation. Safety Data Sheet available on request

Use on food packaging:

The following requirements apply in relation to food and consumables packaging:

- avoidance of organoleptic changes (changes of odour and taste) to the package contents
- migration must remain within the set limits and
- there must be no change in the colour of the package contents.

Migration and invisible set-off must be prevented by arranging for suitable processing conditions and selecting a substrate or primary packaging with adequate barrier properties.

If the substrate used to make the packaging does not act as an adequate barrier, there is a possibility of substances migrating from the packaging to its contents. In this case, we recommend you use our low-migration MGA-ACRYLAC® water-based emulsion coatings (low-migration, organoleptically neutral). The coatings must not come into direct contact with the packaged foodstuffs.

More information on the subject of food and consumables packaging can be found in the information sheet entitled „Druckfarben für Lebensmittelverpackungen“ (Printing inks for food packaging) published by the German Printing Ink Manufacturers' Association.

How supplied

- 25-kg plastic canisters
- 600-kg returnable plastic containers

Contact addresses for advice and further information can be found under www.hubergroup.de

This Technical information sheet reflects the current state of our knowledge. It is designed to inform and advise. We assume no liability for correctness. Modifications may be made in the interest of technical improvement.