

TopFinish Foils

1. Description

TopFinish Foils is an innovative range of oil based coatings for printing on impervious substrates on straight ahead sheetfed presses.

2. Product features

TopFinish Foils oil-based overprint coatings:

- are based on mineral and vegetable oils
- dry by oxidation
- can be printed with and without fountain solution
- shall be applied via the inking unit
- are available with a gloss, silk matt and matt finish
- are free of cobalt based drying catalysts

3. Product Suitability

3.1 Applications

TopFinish Foils overprint coatings are intended for use on impervious substrates. The coatings are suitable for all types and all sizes of straight ahead sheetfed offset printing machines.

The coatings are not suitable for the following applications:

- Food packaging applications without functional barrier
- Printing on films where migration of plasticisers is an issue, as PVC
- Waterless printing
- Sheetfed presses with an Anilox inking system (Heidelberg Anicolor[®])

3.2 Substrates

TopFinish Foils can be printed on the following substrates:

- Impervious substrates (plastic films, metallic foils, PE coated board, metalised cast coated paper and board (Chromolux[®]))
- any kind of matt/silk or gloss coated paper, where enhanced drying is required

NB: The substrate quality will influence the drying performance and the gloss of the print. On impervious substrates, tests under industrial conditions are strongly recommended in order to prove that the adhesion is sufficient.



4. TopFinish Foils Range

TopFinish Foils Coatings are supplied as finished products.

The following table sums up the available range:

PRODUCT NAME	PRODUCT CODE	MATT	SILK/SEMIMATT	GLOSS
TOPFINISH FOILS SILK	TPF93	-	+	-
TOPFINISH FOILS GLOSS	TPF94	-	-	+
TOPFINISH FOILS MATT	TPF 95	+	-	-

5. General Handling

5.1 Storage

TopFinish Foils coatings should be stored at ambient temperature between 5°C and 35°C. Under these conditions TopFinish Foils coatings have a shelf life of at least 36 months in an unopened vacuum-packed tin.

5.2 Waste disposal

Waste disposal should be carried out in accordance with good industrial practice, observing all the appropriate local, national and regional regulations and guidance.

6. Printing Conditions

6.1 Fount Solution

TopFinish oil-based overprint coatings are not required to run with a special fount solution. However for spot coatings Sun Chemical recommends the use of SunFount products to achieve optimal performance:

SunFount[®] 330; suitable for 8-10% IPA in normal water qualities

SunFount[®] 480; suitable for 3-6% IPA, to prevent roller glazing

SunFount[®] 455; suitable for 0-5% IPA, adapted for IPA free printing

The quality of the water and the overall printing conditions have a strong impact on the choice of fountain solution and the level of IPA required. Minimum fount settings support fast and thorough drying of the coating. Please consult our technical services for assistance.



6.2 Printing Plates

TopFinish Foils coatings can be run with any type of aluminium based printing plates (CtP plates, conventional positive or negative plates).

6.3 Influence of IR drier

The use of IR drier is not recommended as it will lead to increased set off in the delivery pile.

6.4 Press cleaning

After having printed with TopFinish Foils coatings the press can be easily cleaned using standard press washes. Because of the high drying potential, TopFinish left-overs should be removed from the press as soon as printing is completed.

6.5 Coating film thickness

In order to avoid soiling of the TopFinish Foils coatings it is recommended to apply a sufficient amount.

7. End-use safety

TopFinish coatings are intended for sheetfed offset printing.

All Sun Chemical Europe printing inks and related materials are formulated in accordance with the CEPE/EuPIA Exclusion Policy. This excludes from use all materials classified according to the CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures as carcinogenic, mutagenic or toxic for reproduction in categories 1A or 1B with hazard statements H340, H350 or H360, in addition to toxic or highly toxic materials with hazard statements H300, H301, H310, H311, H330, H331, H370 or H372. A copy of the document is available on the EuPIA website: <http://www.eupia.org>

TopFinish oil-based overprint coatings also comply with EN71/3 (suitability for toy packaging).



8. Technical Assistance / Contacts

For further information, please contact your local Sun Chemical team.

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