

SunCoat™ Clarity Matt APC2601

1. Description

SunCoat™ Coating APC2601 is an aqueous matt coating suitable for work and turn applications with low opacity. The product is formulated for use on primary food packaging where a risk of migration has been identified. Suitable for high speed in-line coating of low migration U.V. and conventional lithographic inks. The product imparts excellent scuff and scratch resistance to the print surface of paper and carton board.

2. Product Features

- Matt finish level. Typical 8 – 12 points Sheen @ 60 degrees *
- Excellent rub resistance
- Slip properties suitable for high speed gluing and filling lines.
- Typical cof Static 0.30 – 0.50**
- Excellent stability on large and small format printing machines.
- Suitable for Foil stamping***
- Non Yellowing

* Gloss is dependant upon many factors such as substrate, applied coating weight and ink type / density

** Coefficient of Friction measured on Daventest friction measuring equipment under standard conditions.

*** All foils and adhesives should be tested for suitability with this product prior to production.

Please consult your Sun Chemical representative for specific application performance data

3. Product Suitability

3.1 Applications

SunCoat™ APC2601 coating is intended for use in the following areas:

- Flexographic and roller coat application via a dedicated coating system to paper or board packaging where a low matt finish and mechanical resistance properties are required
- Paper and Carton board packaging for food and sensitive goods

SunCoat™ APC2601 coating is **not** intended for the following areas:

- Use over non-resistant inks that contain ammonia / alcohol sensitive pigments e.g. Purple, Violet, Rhodamine, Reflex Blue, and 072 Blue.
- Direct food contact applications.
- Ovenable or high temperature applications
- Impermeable substrates, Foil, Metpol, plastics etc

All properties are dependant on the coat weight applied and the integrity of the coating. Applied wet coating weight of between 3 and 6 g m⁻² is recommended.

working for you.



4. General Handling

4.1 Storage

SunCoat™ APC2601 coating is not considered flammable. Storage temperature should be between 5 and 30°C. Avoid freezing and direct sunlight.

APC2601 has a shelf life of 6 months from date of manufacture if sealed and normal storage conditions.

4.2 Waste disposal

Care should be exercised in the disposal of coating waste. This should be carried out in accordance with good industrial practice, observing all the appropriate regulations.

For more specific handling advice please refer to the Safety Data Sheet (SDS).

5. Printing Conditions

5.1 Printing Viscosities

The product is supplied press ready 35 - 40 Seconds through a Din 4 flow cup @ 25°C

Solids levels of 41 +/- 1%

5.2 Reducing solvents

Tap water if required 3% maximum addition.

6. End-use safety

All Sun Chemical products are designed with end-use safety built-in. Combination of Sun Chemical products with products from other manufacturers may affect the suitability of the Sun Chemical product for specific end uses and or applications. It is advised that in such circumstances the user undertakes a detailed risk assessment to ensure that safety is not compromised. All Sun Chemical products are formulated to the latest CEPE/EuPIA guidelines. This excludes the use of carcinogenic, mutagenic and toxic for reproduction (CMR 1 and 2) or labelled (T) according to the Dangerous Substances Directive 67/548/EEC, substances classified as very toxic (T+) or toxic (T) and pigments based on compounds of Sb, As, Cd, Cr (VI), Pb, Hg, Se. The use of certain dyes, solvents, plasticisers and miscellaneous materials are also included. The use of certain dyes, solvents, plasticisers and miscellaneous materials are also excluded

Acceptable technical performance of **SunCoat™ APC2601** coating is dependent on:

- Control of product application weight (inks coatings and adhesives). Requires forced air drying with hot air knives and efficient extraction of moist air. I.R. levels should be reduced to a minimum when coating and stack temperatures should be kept below 32C
- Adequate drying on press (to ensure that the print is dry before conversion)
- Appropriate packaging design and structure
- Control of any migratable substances within the finished packaging structure
- Suitable adhesive used in accordance with supplier recommendations



The choice and control of substrate, design (including coverage and coat weight), process conditions (e.g. to ensure proper drying) and any materials from other suppliers are printer or converter technical requirements. Sun Chemical's technical team can provide assistance in the form of suggestions or direct support for our products.

Food Packaging: It is the ultimate responsibility of the food packer to ensure packaged food is safe. With regard to potential migration of substances in to the foodstuff from the printed packaging, it is the responsibility of the converter and food packer to ensure that migration does not exceed any permitted regulatory limitations.

To fulfill its responsibility within the supply chain, and following the signing of a legally binding mutual non-disclosure agreement, Sun Chemical will provide details to the customer of any potential migratable components present in its products through the preparation and communication of a 'Statement of Composition'

7. Disclaimers

This list of applications, substrates and processes provided in this document is not exhaustive. Please contact your local Sun Chemical representative for full technical evaluation of your application or process.

The performance of the product and its suitability for the customers' purpose depend on the particular conditions of use and materials being printed. Therefore, any statement provided in this document should not be construed as providing a guarantee of performance in a specific application area. Sun Chemical always recommends that customers carry out a full evaluation of performance and safety-in-use prior to using our products in commercial applications.

The printers, converters and the packer/filler have the legal responsibility to insure that the finished article is fit for the intended purpose (s) and that the ink and coating components do not migrate into the food at levels that exceed legal and industry requirements.

8. Technical Assistance / Contacts

Please see www.sunchemical.com for further information on Sun Chemical products and services and contact your local Sun Chemical representative for specific product advice.

The information contained herein is based on data believed to be up-to-date and correct at the time writing. It is provided to our customers in order that they are able to comply with all applicable health and safety laws, regulations, and orders. In particular, customers are under an obligation to carry out a risk assessment under relevant Good Manufacturing Practices (GMP) in line with EU food contact legislation and as a result take adequate measures to protect food consumers.