



WESSCO® LM & WESSCO® EPPI® LM UV coatings
are low-migration, UV-curing matt and high-gloss coatings suitable
for finishing the outside of food packaging

FACT SHEET

WESSCO® EPPI WESSCO® EPPI® LM

UV COATINGS FOR FOOD PACKAGING

MAXIMUM EFFECTS, MINIMUM MIGRATION,
SAFE AND ECO-FRIENDLY



SWISS BRILLIANCE IN COATING



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Clothes make the man – packaging makes the brand

Packaging design is a key to marketing success in the food industry. In more than half of all cases, the decision to buy is made spontaneously at the POS (point of sale). This means that packaging is the biggest selling point. It conveys the brand message and helps products to be seen and identified by consumers in the midst of a vast selection of goods.

Packaging has become the face of the brand and fulfills important communicative tasks:

- Catching the consumer's attention
- Engendering trust
- Communicating product properties
- Enabling consumers to quickly recognise brands or companies
- Quickening the consumer's appetite
- Triggering unpremeditated purchases

In addition to performing communicative tasks, packaging must also meet numerous requirements regarding product protection, safety and logistics. This poses special challenges to the industry, especially in the food sector.

Schmid Rhyner's UV solutions for food packaging

Schmid Rhyner's specific solutions for the food packaging industry ensure that the maximum finishing effects typical of UV coatings can also be achieved in the sensitive food sector:

- High scuff resistance
- High gloss
- Extra mattness
- Tactile effects, e.g. Relief, Soft Touch, 3D

To this end, Schmid Rhyner aims at minimising the migration of substances from the coating film to the packaged goods. This means the coatings must be specially formulated. The photoinitiators used in the coatings illustrate this especially well.





A) Standard UV coating – standard photoinitiators

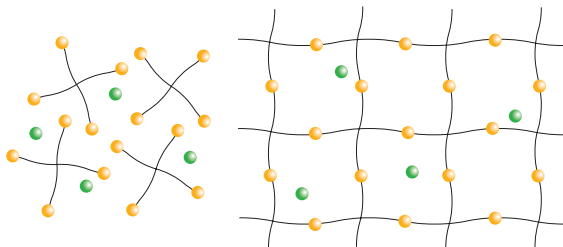


Fig. 1

B) LM – polymeric photoinitiators

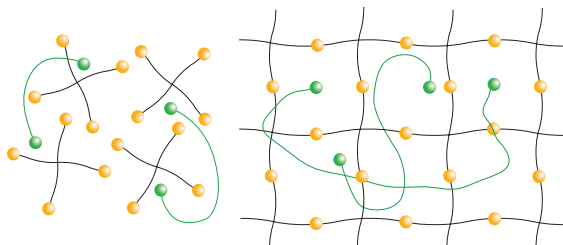


Fig. 2

C) EPPI® – polymerised photoinitiators

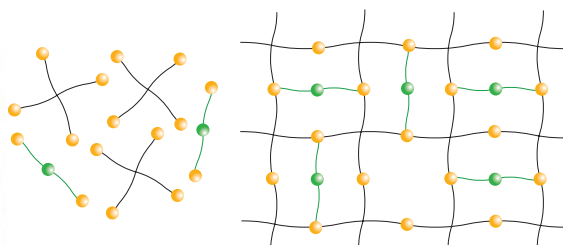


Fig. 3

Two LM coatings at a glance: LM vs. EPPI®

Polymeric photoinitiators (LM) (Fig. 2) use molecules that are heavier (approx. 1'000 Dalton) than conventional photoinitiators (< 400 Dalton). Due to their size, they have a much lower risk of migrating.

Photoinitiators that are able to form networks (EPPI®) (Fig. 3) have a very high molecular weight (> 1'000 Dalton), which has already proven useful in the conventional LM technology. In addition, these photoinitiators contain functional groups that embed themselves firmly in the chemical structure of the coating film during the curing process.

This EPPI® technology is unique on the market and relies on a new generation of photoinitiators developed by Schmid Rhyner. The new photoinitiator increases the quality of sensitive packaging. The technology is especially useful for

packaging intended for critical goods, such as products with a high fat content or compound materials containing polyethylene (PE), which are especially prone to migration. Please refer to our brief guide on food packaging for more information.

WESSCO® LM & EPPI® LM UV coatings for food packaging

WESSCO® LM & EPPI® LM UV coatings are not prone to migration. They are suitable for finishing the outside of food packaging and other types of sensitive packaging and comply with legal requirements and guidelines (GMP).

We offer the following product lines:

- WESSCO® LM UV coatings
- WESSCO® EPPI® LM UV coatings

The coatings can be used in sheet-fed offset, gravure and flexo-printed label applications, and in off-line coating machines.

See our technical lists and data sheets for detailed information on the individual product lines and products.

Customers benefit from the comprehensive Schmid Rhyner service

We actively support our customers in carrying out printing tests and subsequent migration tests in cooperation with an accredited laboratory. Our competence team 'Chemical Research and Development' offers support in all questions concerning food safety, migration and photoinitiators.

Advantages of finishing with WESSCO® LM & EPPI® LM UV coatings

- Maximum effects increase customer attention at the POS
- Energy-efficient, immediate converting
- Complete product range
- Good surface slip properties and scuff resistance guarantee a trouble-free conversion
- Guaranteed comprehensive technical service and consulting
- More than 40 years of experience





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8 reasons for becoming a Schmid Rhyner partner

- Your innovation partner** Schmid Rhyner is a dynamic, growing company with more than 40 years of experience in the development and manufacture of UV and water-based coatings; we work with our partners to develop products that meet the needs of the market.
- Your quality partner** Schmid Rhyner products are manufactured in consistently high quality and to very narrow tolerances to ensure that our customers can rely on reproducible top quality.
- Your technology partner** With Schmid Rhyner, you have access to the latest findings that result from our ongoing research and development efforts.
- Your problem-solver** If you have questions relating to varnishing, Schmid Rhyner specialists will support you with practical tips and give quick and competent advice to help solve your problem.
- Your ecology partner** Schmid Rhyner products are 100% solvent-free, recyclable, very eco-friendly and do not need to be declared as hazardous materials. This means that our customers save disposal costs and special charges.
- Your market partner** With a market presence in more than 90 countries, Schmid Rhyner and our distribution partners offer customers a wide-ranging distribution network and on-site support.
- Your service partner** Thanks to state-of-the-art production equipment and selected logistics partners, we can deliver our top-quality products on time even under difficult circumstances.
- Your Swiss partner** We at Schmid Rhyner sum up our corporate philosophy with the slogan 'Swiss Brilliance in Coating'. With this slogan, we commit ourselves to providing technically brilliant products, today and in the future.

TALK TO US – WE'LL BE HAPPY
TO PROVE OUR COMPETENCE!



SWISS BRILLIANCE IN COATING

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