Pharmaceutical Coatings

Unique coating products for oral applications



Ingredients that inspire

Pharmaceutical Coating Range

Gastrosoluble film coating products

At Seppic we offer multiple ranges of ready-to-use, immediate release, aesthetic and functional film coatings with **HPMC** or **HPC** based agents.

- Manufactured according to IPEC-GMP guidelines
- EXCiPACT certified manufacturing processes
- Multicompendial components compliant to [Ph.Eur], [USP-NF]
- Titanium dioxide free options available (colored and non colored)
- Good adhesion of the film to the core
- Homogeneous dispersionEasy to use: fast and

easy dispersion



SEPIFILM[™] LP range (Moisture protection)

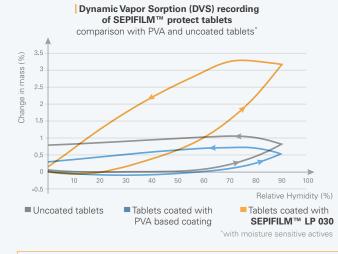
SEPIFILM[™] LP is a **functional range** of ready-to-use gastrosoluble coating agents in **granule** form, for the film coating of moisture sensitive solid products (hygroscopic tablets, powder, pellets, granules, chewing-gums...).

Tablets coated with SEPIFILM[™] LP exhibit an **improved stability and resistance to moisture** of sensitive formulations and avoid undesirable interactions with API.

▶ 7 grades of SEPIFILM^M LP are available with different protection levels.

Clear Titanium dioxide free	SEPIFILM™ LP 010 SEPIFILM™ LP 014* SEPIFILM™ LP 007 SEPIFILM™ LP 030	[DMF type IV, n°14031]
White With titanium dioxide	SEPIFILM™ LP 770* SEPIFILM™ LP 761	[DMF type IV, n° 12524]
For organic media	SEPIFILM™ LP 914 (based on HPC)	

SEPIFILM™ LP 014 and SEPIFILM™ 770 are the standard grades



SEPIFILM™ LP are registered in the Inactive Ingredient Database: included in several FDA approved drug products.

- Homogeneous dispersion: Readily dispersible at 12% of dry content in water at room temperature, with only 1 hour of mixing time. No dust, no lumps and limited generation of foam.
- Application at 3-5% weight gain depending on the sensitivity of the cores.
- Use with different solvents SEPIFILM[™] LP can be used for aqueous, organic or hydroalcoholic phases and different levels of moisture protection to achieve to suit to your formulation needs.

••• Tips & Tricks Colored coating with moisture protection



Possibility of color matching thanks to the addition of SEPISPERSE[™] DRY or SEPIFILM[™] PW in SEPIFILM[™] LP (60% minimum) at 5% final weight gain to maintain moisture protection properties while obtaining bright colors.



SEPIFILM[™] PW range (Aesthetic)

SEPIFILM[™] PW are optimized film-coating formulations with individual ingredients that are blended into homogeneous **powder** for various benefits.

- ► Available in white, clear, titanium dioxide free and more than 10 colors.
- Fast and easy dispersion in water at a dry content of 20%-25%.
- Faster coating process: reduced film-coating time by 30% compared to classic HPMC-based film-coating.
- Good coverage at only 3% weight gain.
- No impact on the release of the API from the tablet.
- 4 years stability.
- Free-flowing powder for easy handling.

All colored SEPIFILM™ PW contain only one pigment for easier registration.

••• Tips & Tricks

All SEPIFILM[™] PW products are compatible with each other allowing the creation of infinite shades. All grades can be mixed together & with SEPIFILM[™] LP for colored moisture protection (5% of final weight gain) to maintain moisture protection properties while obtaining bright colors.

SEPISPERSE™ DRY range (Solid coloring agent) to combine with SEPIFILM[™] Classic / LP / PW Clear / White TF

SEPISPERSETM DRY are ready-to-use solid **coloring agents** for SEPIFILMTM or any other film-coating preparation.

➤ More than 25 references are available. 8 of which are titanium dioxide free. By combining these 25 references, we obtain an infinite number of colors.

- Contains high content of coloring agents.
- Excellent film strength and adhesion to the core for smooth finish.
- No delay in API liberation.

••• Tips & Tricks

All grades can be mixed with each other or with white to obtain the desired shade

SEPISPERSE[™]AS, AP (Liquid coloring agent) to combine with SEPIFILM[™] Classic & LP

Ready-to-use liquid **coloring agents** for SEPIFILM[™] or any other film-coating preparation.

SEPIFILM[™] Classic range (Aesthetic)

SEPIFILM[™] is an **aesthetic** range of coating systems.

- ▶ 3 standard grades: colorless titanium dioxide free + white or colored are available for pharmaceutical uses.
- Fast and easy dispersion in water at a dry content of 15%.
- Good coverage at only 3% weight gain.

SEPIFILM[™] SC range (Sugar coating)

SEPIFILM™ GLOSS range (Pearlescent)

All-in-one film coating to achieve superior **pearlescent effect** on tablets.

- Water dispersion and quick mixing time: 15 min.
- Possible mixtures with other colored dispersions.

••• Tips & Tricks

SEPIFILM[™] Gloss can be used on uncoated cores or white coated cores, but all SEPIFILM[™] Gloss' power is revealed by applying it on a colored sub-coat.

Coating range in brief		
"Traditional" coating (including TiO ₂ free ingredients)	• SEPIFILM™ LP • SEPIFILM™ PW • SEPIFILM™ Classic • SEPIFILM™ White TF	
	• SEPIFILM™ GLOSS • SEPIFILM™ SC	

Titanium Dioxide Free range

To overcome the regulatory challenge on titanium dioxide, Seppic brings 'mineral free', 'talc free' - TiO, alternatives for your future coating formulation needs.

SEPIFILM[™] White TF

New patented solution designed with unique ingredients to provide strong opacifying properties with a white color to the tablets without titanium dioxide.



- All components comply with the European, US and Japanese Pharmacopeia.
- Overall better regulatory acceptance.
- Weight gain 3 to 7% depending on the cores.
- Stable color no yellowish effect.

SEPIFILM™ Classic Colorless / Clear

Aesthetic.

SEPIFILM[™] PW Clear

Aesthetic.

SEPIFILM[™] LP Clear

Moisture protection.

Coloring agents compatible with TiO, free range

SEPISPERSE™ DRY (8 references without titanium) to combine with all SEPIFILM™ TiO₂ free listed here

A range of dry coloring agents based on HPMC, enable the personalization of coating solutions.

▶ 8 references titanium free with different type of pigments.

By combination of colors, we obtain an infinity



Colors available for the TiO, free

••• Tips & Tricks

Multiple opportunities to keep formulating titanium free formulations while combining SEPIFILM[™] with a range of other TiO₂ free color shades from Seppic.

Red F

coating range (non exhaustive).

Customized film coating & Technical support

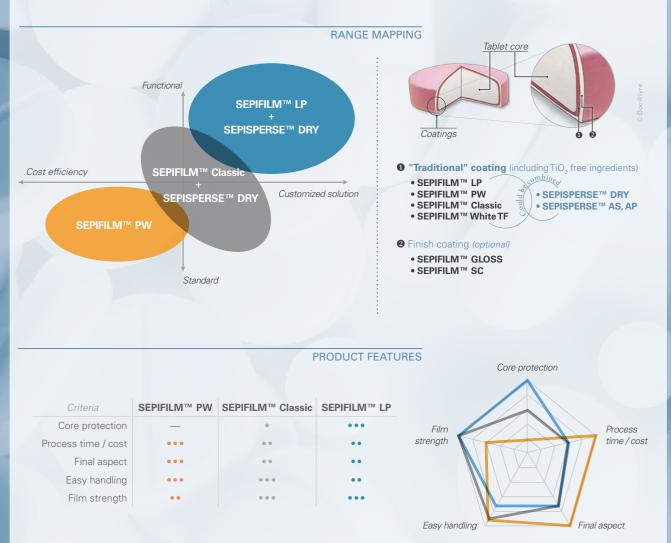
Adaptability to specific requirements

Seppic is committed to support your developments with our excipients and unique expertise

- Formulation assistance:
 - > Color matching trials from a drug sample or pantone code reference
 - > Lab coating applications on your cores
 - > On site coating support (lab scale, transposition...)
- Personalized film-coating material based on Your composition & Your specifications.



How to choose the coating matching your needs?



Our pharmaceutical ingredients come with a full quality & regulatory package to support you in your registrations



Nota:

The analytical specifications warranted are only those mentioned on the certificate of analysis supplied with each delivery of the product.

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Air Liquide Healthcare is a world leader in medical gases, home healthcare, hygiene products and healthcare specialty ingredients. It aims to provide customers in the continuum of care from hospital to home with medical products, specialty ingredients and services that contribute to protecting vulnerable lives.

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