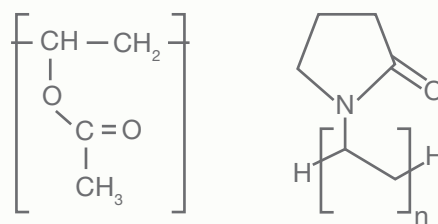




Formulating Topical Film Formers with Kollicoat® SR 30 D

Kollicoat® SR 30 D is a polyvinyl acetate dispersion stabilized with povidone and sodium lauryl sulfate. Suitable for the manufacture of pH-independent sustained-release formulations, this low viscosity polymer's film forming functionality has shown promise in topical applications. Kollicoat® SR 30 D is ideal for the development of fast drying, water resistant, and adhesive topical films. Formulate with Kollidon® 90F to develop innovative topical formulations.



Kollicoat® SR 30 D is composed of polyvinyl acetate stabilized with polyvinylpyrrolidone and sodium lauryl sulfate


We create chemistry

Kollicoat® SR 30 D product properties

Trivial Name	Poly (vinyl acetate) dispersion 30 per cent
CAS Number	9003-20-7
Solubility	<ul style="list-style-type: none">■ Miscible with water in any ratio■ Mixing with ethanol or isopropyl alcohol in a 1:5 ratio produces a slightly turbid and somewhat viscous solution; a solution in acetone is more turbid■ Mixing with organic solvents causes initial polymer precipitation; polymer solubilizes with continued addition of solvent■ Insoluble in dilute alkaline or acidic solutions

Kollicoat® SR 30 D PRD and article numbers

PRD-No.	30067541
Product Name	Kollicoat® SR 30 D
Article Numbers	51597817 50893290
Packaging	1 kg plastic bottles 25 kg plastic jerricans

Formulating topical film formers with Kollicoat® SR 30 D

Topical film formers are formulations that yield a cohesive film on the surface of the skin. Characterized by fast dry times, good bioadhesion, flexibility, and moisture resistance, film formers continue to grow in popularity due to their ease of application and appealing sensory properties. These barrier-forming dosage forms both protect the skin against dirt and bacteria and enhance API retention. Film forming polymer Kollicoat® SR 30 D can be used in conjunction with BASF's broad portfolio of excipients to formulate various topical and transdermal dosage forms. Leverage BASF's expertise in film forming polymers to develop innovative solutions for topical and transdermal drug delivery.

Example Kollicoat® SR 30 D film forming sprays

Ingredient	Chemical name	Role	wt/wt%
Kollicoat® SR 30 D	Polyvinyl acetate dispersion	Film former	13.33
Ethanol	Ethanol	Solvent	37.67
Ethyl acetate	Ethyl acetate	Solvent	49.00

Ingredient	Chemical name	Role	wt/wt%
Kollicoat® SR 30 D	Polyvinyl acetate dispersion	Film former	13.33
Ethanol	Ethanol	Solvent	86.67

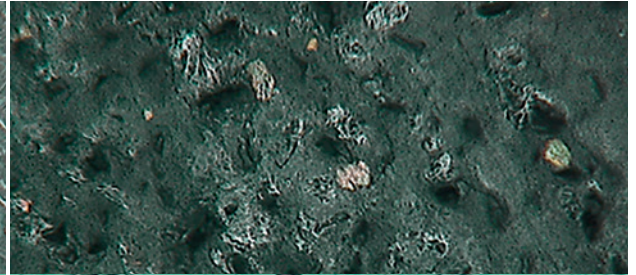
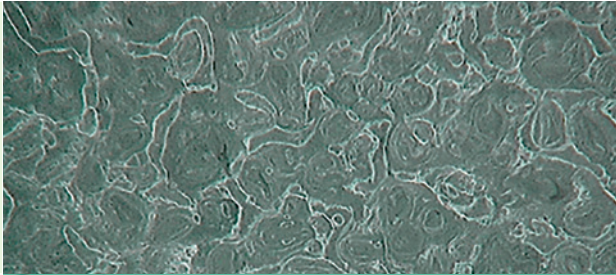
Procedure

1. Combine ethanol, DI water, and ethyl acetate (for more mild scented formulations, do not use ethyl acetate) into an appropriately sized beaker. Blend using overhead mixer.
2. Slowly add Kollicoat® SR 30 D and continue to stir until polymer is completely dissolved.
3. Add any additional plasticizers as needed.
4. Charge formulation into a metered dose, high viscosity spray container.

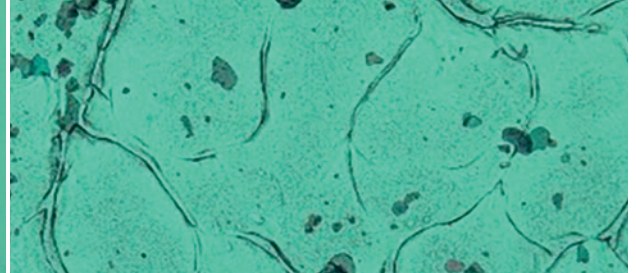
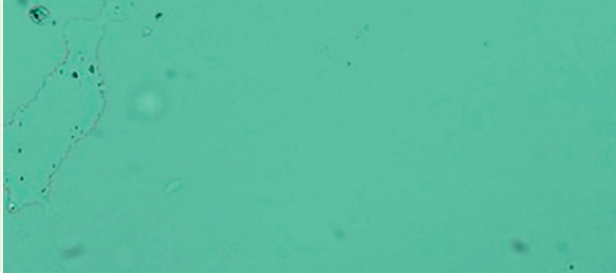
Neat

Kollicoat® 30 D spray film

VITRO-SKIN®
substrate



Glass
substrate



Faux API (gold pigment) on VITRO-SKIN® and glass substrate



Our service offer

If you need further support or information please contact us via our website:

www.pharma.basf.com/speak-with-an-expert



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July, 2020 MarComm-2024-00289

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