SIMULGEL™ INS 100

Spray It, Pour It, and Spread It!

VERSATILE

- **Versatile Polymer**
- **Multifunctional**
  stabilizes and thickens
- **pH range 3-12**
- **Spray It!**
  - sprayable formulas

  Pour It!
  - fluid formulas (50-1000 mPa.s)

  Spread It!
  - viscous formulas
- **Quick breaking FRESH textures**
- **Shear-thinning & Non-thixotropic**
- **Performances**
  Stabilizes all types of oils even at low viscosities!

  Compatible with solvents (ethanol, glycols, glycerine)
- **Liquid Polymer**
  Easy-to-use

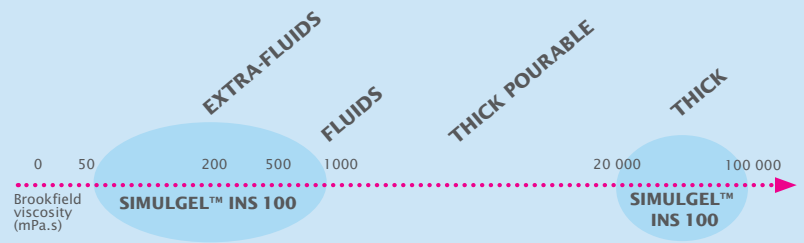
  COLD Process
  Introduction into the oil or water phase

Identity Card

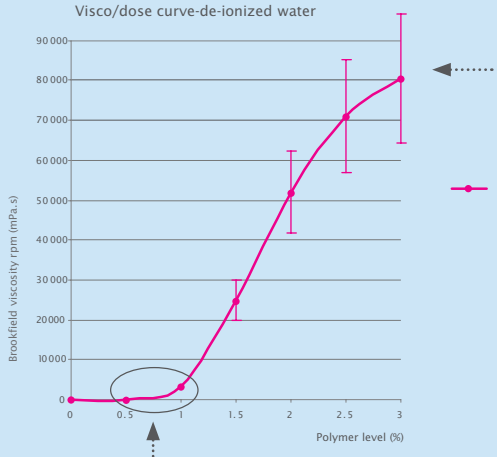
INCI name	Cosmetic Regulatory Advantages	Physical Aspect
Hydroxyethyl Acrylate / Sodium Acryloyl dimethyl Taurate Copolymer & Isohexadecane & Polysorbate 60	China: listed in IECIC	Liquid pre-neutralized inverse latex polymer

Choose a viscosity range

- Sprayable, fluid or viscous formulas
- Suitable for use with various active ingredients and solvents



Versatility! Create stable fluid formulas from 0.5% -1%



Formula:
- SIMULGEL™ INS 100 x%
- Water up to 100%

Procedure: serrated disc stirrer

SIMULGEL™ INS 100 low slope of the viscosity below 1% - Excellent reproducibility

Milk Becoming Water Tonic - Make-up Remover, cream gel - EU07132

A	Water	Up to 100%
	Glycerin	5.00%
	SIMULGEL™ INS 100	**1.80%**
B	Isohexadecane	20.00%
C	Water & Methylisothiazolinone & Ethylhexylglycerin	0.10%
D	Fragrance	0.05%
E	Colorant	0.01%
F	Triethanolamine	Qs pH

- pH after 1 month at RT: 7.2
- Viscosity M1 at RT: 46,000 mPa.s brookfield LV4 speed 6
- Viscosity recovery at RT (after 1 month at 45°C): 41,000 mPa.s brookfield LV4 speed 6
- Stability: > M1 at RT & 45°C

▪ Velvety Spray for Men, O/W emulsion - EU06952A

A	Water	30.00%
	Sodium hydroxide 48%	0.035%
	SENSANOV™ WR	**0.50%**
B	Dimethicone	5.00%
	SIMULGEL™ INS 100	**0.90%**
C	Phenoxyethanol & ethylhexylglycerin	1.00%
D	Fragrance	0.15%
E	Water	QSP 100%

▪ pH:	6
▪ Viscosity after M1 at RT:	1,200 mPa.s brookfield LV2 6rpm
▪ Viscosity recovery at RT (after 1 month) at RT 45°C:	1,300 mPa.s brookfield LV2 6rpm
▪ Stability:	> M1 at RT & 45°C

▪ Sprayable Sun Care Formulation, (SPF vitro 50/Water resistant), W/O emulsion, very low viscosity - EU07102A

A	**MONTANOV™ 82**	**2.00%**
	C12-15 alkyl benzoate	17.00%
	Octocrylene	6.00%
	Ethylhexyl Methoxycinnamate	6.00%
	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.00%
	Dimethicone	3.00%
	Tocopherol	0.05%
B	Aqua/Water	Qsp100%
C	**SIMULGEL™ INS 100**	**0.50%**
	SOLAGUM™ AX	**0.10%**
D	Cyclopentasiloxane	5.00%
	Titanium Dioxide & Isohexadecane & Triethylhexanoin & Aluminum Stearate & Alumina & Polyhydroxystearic Acid	5.40%
E	Methylene bis-Benzotriazolyl Tetramethylbutylphenol	10.00%
	Citric Acid 25%	Qs pH 5.5 for phase E
F	**AQUAXYL™**	**3.00%**
	Phenoxyethanol & Ethylhexylglycerin	1.00%
	Parfum/Fragrance	0.20%

▪ pH:	7,5
▪ Viscosity 1M at RT:	1,320 mPa.s Brookfield LV S2 sp.6
▪ Viscosity recovery at RT (after 1M at 45°C):	1,380 mPa.s Brookfield LV S2 sp.6
▪ Stability:	> 1M at RT & 45°C

▪ Applications

Skin care, foundations, tinted gels, sun and after-sun care, mascaras, make-up removers, creams, lotions, hair care, hair color, products containing heat-sensitive or pH-dependent active ingredients etc.

▪ Formulation Advice

In emulsions there are three possible options:

1. Add polymer into oil phase
2. Create aqueous gel then add oil phase
3. Add polymer during emulsification phase

For fluid or ultra fluid formulas:
Create a concentrated emulsion under high shear and dilute with remaining water phase.

SEPPIC S.A.
22 Terrasse Bellini
92806 Puteaux
FRANCE
Tel. : + 33 (0) 1 42 91 40 00
info.seppic@airliquide.com

Head Office
75, quai d'Orsay
75007 Paris
FRANCE

© 2012 SEPPIC
SIMULGEL™ INS 100 is registered as Trade Mark of SEPPIC

SEPPIC is a subsidiary of the AIR LIQUIDE group

AIR LIQUIDE

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

Except as set forth above, SEPPIC makes no warranties, whether express, implied or statutory, as to the product which is the subject of this document. Without limiting the generality of the foregoing, SEPPIC-makes no warranty of merchantability of the product or of the fitness of the product for any particular purpose. Buyer assumes all risk and liability resulting from the use or sale of the product, whether singly or in combination with other goods. The information set forth herein is furnished free of charge and is based on technical data that SEPPIC believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside SEPPIC's control, SEPPIC makes no warranties, express or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents

www.seppic.com

6016/GB/01/October 2012 - Design: Gris Souris