



# ROQUETTE

## BEAUTÉ

## BEAUTÉ BY ROQUETTE® ST 720

Beauté by Roquette® ST 720 is a new plant-based water-soluble film forming agent, acting as an effective barrier against atmospheric pollutants.

Produced from pea starch and specifically designed for cosmetics, it creates and leaves a flexible smooth and continuous barrier over the skin or hair.

The film allows long-lasting effect and prevents from color transfer in make-up application.

### BENEFITS AT A GLANCE:

- Water-soluble transparent film-forming agent
- Effective barrier against atmospheric pollutants
- Non occlusive film
- No transfer
- Good skin adhesion
- Smooth feel on skin
- Easily removable with soap and water

### INCI NAME

Hydroxypropyl starch

### PHYSICAL ASPECT:

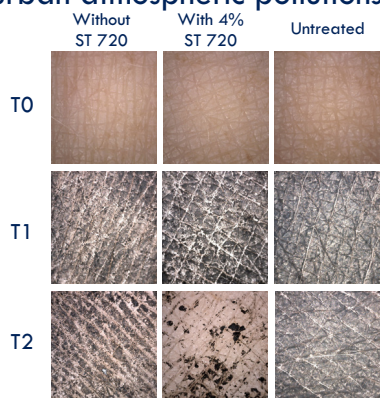
White powder, odorless

### ORIGIN:

Pea

### EFFECTIVE BARRIER AGAINST ATMOSPHERIC POLLUTANTS:

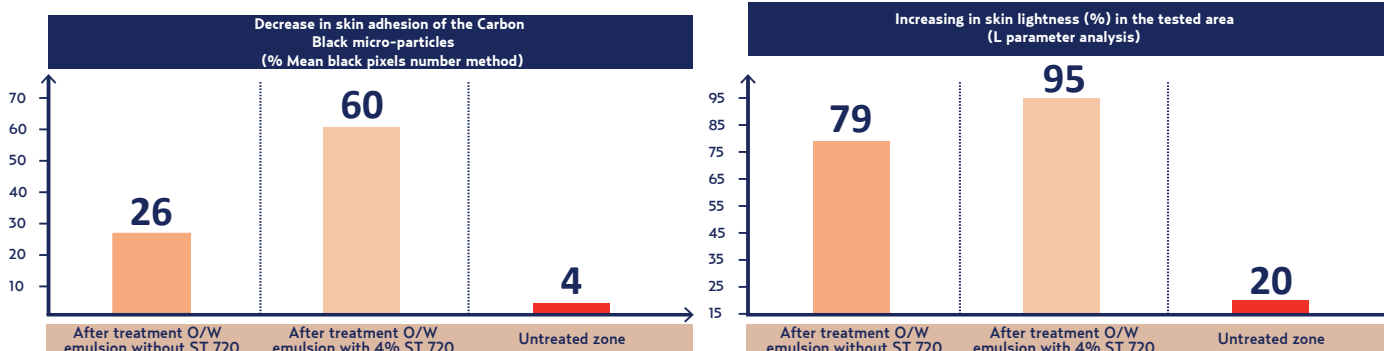
In vivo efficacy evaluation in protecting the skin against carbon black micro-particles modeling urban atmospheric pollutions



Under the adopted experimental conditions, the cream with Beauté by Roquette® ST 720 demonstrates efficacy in decreasing the skin adhesion of the carbon black micro-particles.

In the areas treated with the products, after rinsing, the black pixel number in the pictures is decreased and the skin lightness (L parameter) is increased, stating a decrease in the particulate.

T0 = before the application of the cream  
T1 = after the application of carbon black  
T2 = after rinsing



## SPECIFIC FEATURES:

Alternative to synthetic polymers (PVP, PVA, silicon resins...) or modified cellulose  
Water Soluble  
Cold or hot process

## RECOMMENDED APPLICATIONS:

Skin care, color cosmetics, hair care

## RECOMMENDED USE LEVEL:

2 - 15%

## PH OF USE:

4 to 10

## APPLICATION GUIDELINES:

Disperse in the water phase; Water soluble; Cold or hot process

## FORMULATION EXAMPLE:

UNDER EYE MASK

## ECOLOGICAL PROFILE:

Derived from 100% vegetal feedstock  
ISO 16128 INO\* = 0.90  
Readily biodegradable (OECD 301)

\* Natural Origin index = Number of natural carbon atoms/Total number of carbon atoms (natural 14 & non natural)

## REGULATORY STATUS:

CAS Number: 9049-76-7

Conform to:

Europe - European Cosmetic Regulation 1223/2009 and its amendments

USA - FD&C Act – 21 CFR 700 to 740

China - Hygienic Standard for Cosmetics: listed IECIC 2015

Japan - Regulation for cosmetics

*Non exhaustive list of countries, please contact us for additional information.*

	INCI NAME	COMMERCIAL NAME (SUPPLIER)	%
<b><u>PHASE A</u></b>	Aqua	Deminerilised water	Up to 100
	Sorbitol	Beauté by Roquette® PO 070 (Roquette)	20.00
	Carrageenan Iota	Genuvisco CG131 (CP Kelco)	1.50
	Carrageenan Kappa	Genugel CG130 (CP Kelco)	1.00
<b><u>PHASE B</u></b>	Hydroxypropyl cyclodextrin	Beauté by Roquette® CD 110 (Roquette)	2.00
<b><u>PHASE C</u></b>	Hydroxypropyl Starch	Beauté by Roquette® ST 720 (Roquette)	5.00
<b><u>PHASE D</u></b>	Aqua	Deminerilized water	2.50
	Calcium Chloride	Calcium Chloride	0.20
<b><u>PHASE E</u></b>	Aqua	Deminerilized water	3.00
	Gluconolactone	Beauté by Roquette® GA 290 (Roquette)	0.15
	Sodium Hydroxide	Sodium Hydroxide 40% aqueous solution	QS pH 6
<b><u>PHASE F</u></b>	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Butylparaben (and) Propylparaben	Microcare PM4 (Thor)	1.00
<b><u>PHASE G</u></b>	CI 42090	FDC Blue 1 (Sensiet Cosmetic Technologies)	QS
<b><u>PHASE H</u></b>	CI 77891 (and) Synthetic Fluorphlogopite	Covapearl Star Doré 2375 (Sensiet Cosmetic Technologies)	QS

## **PROCESS**

- 1/ Disperse and hydrate carrageenans into phase A, while heating up to 75°C and stirring 2000 rpm.
- 2/ Disperse Phase B into A while stirring. Maintain temperature and agitation until homogeneous.
- 3/ Disperse Phase C into A+B while stirring. Maintain temperature and agitation until homogeneous.
- 4/ At 75°C, add phase D under gentle agitation.
- 5/ At 75°C, add premix E (must be adjusted at pH 6) under gentle agitation.
- 6/ At 75°C, add successively phases F, G and H, while stirring gently.
- 7/ At 75°C, add into moulds and allow to cool down at room temperature.

## **FORMULATION SPECIFICATIONS**

ASPECT	BLUE HYDROGEL
pH	6.5 - 6.7
VISCOSITY	NA
STABILITY AT 40°C & 50°C	1 MONTH AT 50°C, 40°C AND ROOM TEMPERATURE