



# PERFORMA V biopolymers

## Sustainable Plant Based Polymers

### Application Guide



#### Feature

- Liquid and low melting point
- Sustainable
- High bio-content
- Non – toxic
- Cruelty free
- Plant based polymers

#### Benefits

- Inherently biodegradable
- Semi – occlusive
- Excellent moisturizer
- Light / non-greasy aesthetics
- Rheology modifier
- Compatible with many cosmetics ingredients

#### Applications

- Skin care
- Color cosmetics
- Body wash
- Sun care

### Description

PERFORMA™ V biopolymers offer a sustainable solution for personal care products. They provide a creamy texture and deliver nourishing skin-conditioning and emollient properties. Multiple product forms and biobased content are possible, with product forms ranging from liquids to low melting solids, and biobased content up to 100%.

This new platform offers formulators flexibility to balance performance and sustainability, and are easily formulated into skin care, sun care, and color cosmetic products.

### Typical Properties

Product	Softening Point °C	Viscosity @ 99 °C cP	SAP Value mg KOH/g	Penetration @ 25 °C	Biobased Content
Test Method	ASTM D-36	ASTM D-3236	Internal	ASTM D-1321	%
<b>PERFORMA™ V-55 biopolymer</b>	liquid	750 @ 32°C	70	NA	50
INCI: pending					
<b>PERFORMA™ V-150 biopolymer</b>	65	350	65	18	50
INCI: pending					

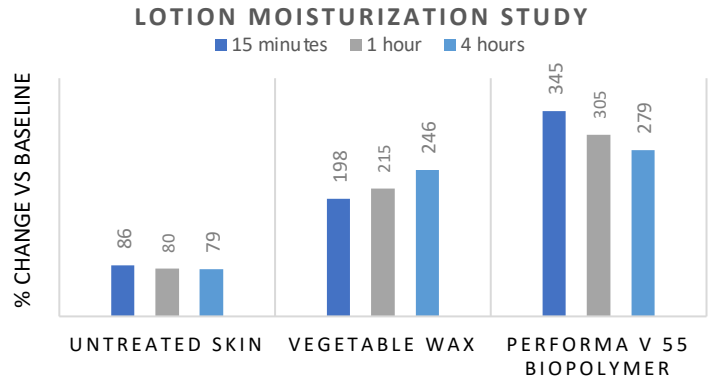
### Compatibility/Solubility

	Water	Mineral Oil	Castor Oil	Ethylhexyl Palmitate	C12-15 Alkyl Benzoate	Dimethicone
5% of PERFORMA V added at polymer melting point and then cooled down to room temperature						
	S – soluble	C – compatible	SC – slightly compatible	NC – not compatible		
<b>PERFORMA™ V-55 biopolymer</b>	NC	S	S	S	S	NC
<b>PERFORMA™ V-150 biopolymer</b>	NC	S	SC	C	S	NC

## Recommended Applications And Use Levels

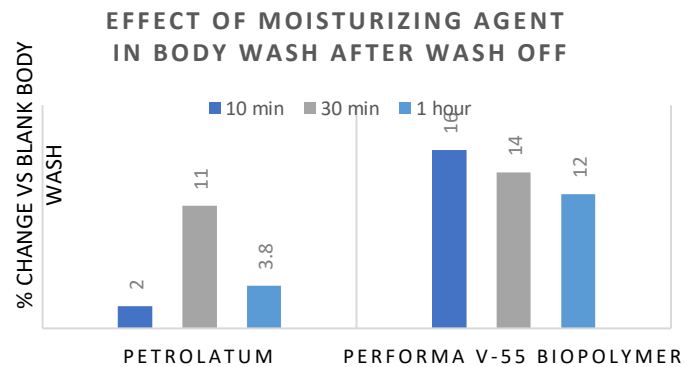
### Skin Care / Lip Care

PERFORMA™ V biopolymers provide non-tacky and moisturizing skin to repair dry and damaged lips. Blends of PERFORMA V-150 and PERFORMA V - 55 can be formulated to partially replace petrolatum in lip care products. Recommended use levels are 2-5%.



### Rinse Off Skin Care Products

PERFORMA™ V -55 biopolymer can be used in rinse off skin care products to provide emolliency and moisturization vs petrolatum. It provides excellent long lasting skin moisturization without impacting foam. Recommended use levels are 1-3%.



### Glossing/ Oil Binding Agents

PERFORMA™ V biopolymers can be used in applications from lipsticks to hair serums. In anhydrous systems, they provide gloss and help to prevent oil bleed in the stick applications. In hair serum formulations, shine and smoothness are easily achieved on all hair types Recommended use levels are 1-5%.



5% PERFORMA V-150 in Rescue Lip Color

### Product availability

Form: Pastilles, liquid

Packaging: 25 KG bags and 15.9 KG drum

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