

# 2021 FORMULATION KIT

**ZEN**

**BEAUTY**

**box**



**SYTHEKON**  
...making innovation work

## Anti-Pollution Under Eye Cream with Synastol® TC and Hydra Synol® DOI

Formulation # RC-03-205.01

INCI name	Trade Name/Supplier	% w/w
<b>Phase A</b>		<b>RC-03-205.01</b>
Capric/Caprylic Triglyceride	Jeechem CTG/Jeen	20.70
Butyrospermum Parkii (Shea) Butter	Shebu Refined/Rita	3.00
Tocopheryl Acetate	Vitamin E Acetate/Jeen	0.30
Glyceryl Stearate SE	Protachem GMS-D/Protameen	2.50
Jajoba Esters	Floraesters 15/FloraTech	4.00
Glyceryl Behenate	Compritrol 888 Pellets/Gattefosse	3.00
Helianthus Annuus (Sunflower) Seed Oil	Sunflower Oil/Jeen	5.00
<b>Isosorbide Dicaprylate</b>	<b>Hydra Synol® DOI/Sytheon</b>	<b>2.00</b>
Stearic Acid	Stearic Acid/Protameen	1.50
Behenyl Alcohol	Lanette 22/BASF	2.50
Coco-Caprylate/Caprates	Cetiol LC/BASF	13.00
<b>Phase B</b>		
Water		28.00
Glycerin	Glycerin/Acme-Hardesty	2.50
Butylene Glycol	Jeechem BUGL/Jeen	4.00
Polysorbate 80	Ritabate 80/Rita	1.00
Sorbic Acid	Sorbic Acid/Protameen	0.30
<b>Phase C</b>		
Xanthan Gum	Keltrol CG/CP Kelco	0.70
<b>Phase D</b>		
Water		5.00
<b>Terminalia Chebula Fruit Extract</b>	<b>Synastol® TC/Sytheon</b>	<b>1.00</b>
<b>Total</b>		<b>100.00</b>

### **Procedure:**

Weigh Phase A in the main kettle equipped with a homogenizer. Heat to 75-80C. Weigh Phase B in a side kettle equipped with a propeller mixer. Sprinkle in Phase C. Once dispersed, heat to 70-75C. When both phases are at the proper temperature, add Phase BC to Phase A. Mix for 15-20 minutes. Switch to side sweep mixing and start cooling the batch. Weigh the water of Phase D in a side kettle. Heat to 45C. Add Synastol TC to the water of Phase D once it has reached temperature. Mix until all solids are dissolved. Add pre-mixed Phase D to Phase ABC when it reaches 45C. Mix until uniform. Finish cooling batch to room temperature.

### **Notes:**

Viscosity: Spindle-TF, S96; Speed-1.0 rpm; Range: 900,000-1,200,000 mPas

## Detoxidant Mask with Synastol® TC and Synoxyl® AZ

Formulation # RC-03-204.01

INCI name	Trade Name/Supplier	% w/w
<b>Phase A</b>		<b>RC-03-204.01</b>
Water		77.10
Glycerin	Glycerin/Acme-Hardesty	3.00
Caprylyl Glycol & Ethylhexylglycerin	Sensiva SC 10/Schulke	1.00
Polysorbate 80	Ritabate 80/Rita	1.00
Water & Green No. 5	D&C Green No. 5, 1% Aq. Sln./Sensient	0.30
Tromethamine	Tris Amino/Angus	0.20
<b>Phase B</b>		
Carbomer	Carbopol Ultrez 10/Lubrizol	0.40
<b>Phase C</b>		
Isoamy Laurate	GreenSens IL/Green Line	3.00
Cetearyl Oliviate & Sorbitan Oliviate	Olivem 1000/Hallstar	2.50
Dipropylene Glycol Dibenzoate	Dermol DPG-2B/Alzo	4.00
<b>Acetyl Zingerone</b>	<b>Synoxyl® AZ/Sytheon</b>	<b>0.50</b>
<b>Isosorbide Dicaprylate</b>	<b>HydraSynol® DOI/Sytheon</b>	<b>2.00</b>
<b>Phase D</b>		
Polyacrylamide & C13-14 Isoparaffin & Laureth-7	Sepigel 305/Seppic	2.00
<b>Phase E</b>		
Water		2.50
<b>Terminalia Chebula Fruit Extract</b>	<b>Synastol® TC/Sytheon</b>	<b>0.50</b>
<b>Total</b>		<b>100.00</b>

### **Procedure:**

Weigh Phase A in the main kettle equipped with a homogenizer. Sprinkle in Phase B. Once dispersed, heat to 70-75C. Weigh Phase C in a side kettle equipped with a propeller mixer. Heat to 75-80C. Once both phases are at the proper temperature, add Phase C to Phase AB. Mix for 15-20 minutes. Add Phase D to Phase ABC. Mix for 5-10 minutes. Switch to side sweep mixing and start cooling the batch. Weigh the water of Phase E in a side kettle and heat to 45C. Add Synastol TC to the water of Phase E once it has reached the proper temperature. Mix until all solids are dissolved. Add pre-mixed Phase E to Phase ABCD when it has reached 45C. Finish cooling the batch to room temperature.

### **Notes:**

pH – 5.0-5.5

Viscosity: Spindle-TF, S95; Speed-0.3 rpm; Range-800,000-1,000,000 mPas