

Sunflower Facial Revitalizing Cream

F-0041B (AP)

Pemulen® TR-1 Polymer allows for ambient temperature emulsification of this rich feeling, glossy cream. Carbopol® Ultrez 21 Polymer provides efficient thickening and further rheology modification. Glucam™ E-20 Humectant has an exceptional ability to enhance water uptake and retain moisture loss and its humectancy and emolliency properties contribute to a luxurious, satin like feel. Schercemol™ 145 and DID Esters provide a combination of medium and rich emolliency, respectively, and also serve to mitigate the oily feel of the sunflower seed oil.

	INCI Name, Trade Name	Weight %	Function
A.	1. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, <i>Pemulen® TR-1 Polymeric Emulsifier</i>	0.30	Polymeric Emulsifier
	2. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, <i>Carbopol® Ultrez 21 Polymer</i>	0.50	Rheology Modifier
	3. Deionized Water	60.00	Diluent
B.	4. Panthenol, <i>DL-Panthenol</i>	0.50	Conditioner
	5. Allantoin	0.20	Skin Conditioner
	6. Glycerin	2.00	Humectant
	7. Disodium EDTA, <i>Protachem NA2-P</i>	0.05	Chelating Agent
	8. Deionized Water	22.55	Diluent
C.	9. Helianthus Annus (Sunflower) Seed Oil, <i>Cropure Sunflower</i>	3.50	Emollient
	10. Diisopropyl Dimer Dilinoleate, <i>Schercemol™ DID Ester</i>	3.50	Emollient
	11. Isostearyl Neopentanoate, <i>Schercemol™ 185 Ester</i>	3.00	Emollient
	12. Cetyl Phosphate (and) Stearic Acid, <i>Crodafos CP-50</i>	0.30	Co-emulsifier
	13. Methyl Gluceth-20, <i>Glucam™ E-20 Humectant</i>	1.50	Humectant
D.	14. Triethanolamine (99%)	0.80	Neutralizer
E.	15. Fragrance, <i>Fragrance #KAJ 8798</i>	0.50	Fragrance
	16. Propylene Glycol, Diazolidinyl Urea, Methylparaben, Propylparaben, <i>Germaben® II-E</i>	0.80	Preservative

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Product Properties:

Appearance	White, creamy emulsion
pH	5.7 – 6.1
Viscosity (mPa·s)**	36,000 – 44,000
Yield Value (dyn / cm ²)	300 – 500

Stability: Passed 3 months @ 45°C, 5 cycles freeze/thaw

** Brookfield RVT @ 20 rpm, 25°C, #6 spindle, measured after 24 hours

Supplier References:

Noveon, Inc. (1, 2, 10, 11, 13)
Protameen (4, 7)
ISP (5, 16)
Acme-Hardesty or Protameen (6)
Croda (9, 12)
Ashland (14)
IFF (15)

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(P0057B-HK)

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For more information visit www.noveon.com or www.carbopol.com or contact your nearest Noveon location.

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Procedure:

1. Disperse **Pemulen®* TR-1** and **Carbopol®* Ultrez 21 Polymers** in deionized water with vigorous mixing. After the polymers have been thoroughly wetted, mix at a slower speed to avoid air entrapment.
2. In a separate vessel, combine **PART B** ingredients. Mix until uniform.
3. Add **PART B** to **PART A** with mixing. Mix until uniform.
4. In a separate vessel, combine **PART C** ingredients with mild heat until Crodafos CP-50 is completely melted. Mix until uniform.
5. Add **PART C** to the batch with agitation at about 1,000 rpm. Mix until uniform.
6. Add Triethanolamine to neutralize the batch with agitation. Mix until uniform.
7. Add **PART D** ingredients to batch one at a time. Mix until uniform.