

TeraTexture™



One Pot • New Textures • Natural Emulsifier

Actera

Pea peptide technology that stabilizes emulsions while giving a luxurious feel.

INCI

pisum sativum peptide (and) sodium stearyl lactylate (and) xanthan gum (and) trisodium citrate (and) magnesium stearate

Physical Description

Powder

Use Level

- 2% TeraTexture can emulsify up to 10% oils on its own
- 3% TeraTexture can emulsify 15% oils on its own
- 5% TeraTexture can emulsify 20% oils on its own

| | |
|--------------|-------|
| TeraTexture | 2-5% |
| Oils | 5-20% |
| Glycerin | 5% |
| Preservative | ~ |
| Water | Q.S. |

Processing Guidelines

One Pot

- Add all materials in pot unless heat sensitive.
- Heat to 80°C until dispersed. Must ensure that batch is at 80°C to disperse TeraTexture properly.
- Propeller mix and cool to room temp. Add heat sensitive materials. Homogenize if desired.



Troubleshooting

Seeing Particles?

- After combining all ingredients, closely monitor the temperature and ensure it is heated thoroughly to at least 80°C.
- Mix well while at temperature and ensure homogeneity before cooling.

Too Thick?

- The level of TeraTexture can be used as low as 1%, in order to make it thin or sprayable.
- For higher oil levels, incorporation of a co-emulsifier may be required.

Soaping?

- Avoid using fatty alcohols which can cause a whitening effect on the skin.
- Try a polar ester to mitigate the whitening effect.

Instability?

- 3% TeraTexture can emulsify up to 15% of oils on its own.
- If instability occurs, incorporate a low level of co-emulsifier.



Actera

clean + active



Refiner

Formulation #06-28

Ultra-clean formula featuring third generation retinoid, **Adapinoid®**. This adapalene delivery system is clinically proven to increase collagen, reduce photoaging, balance skin tone, decrease the appearance of pores, and clear acne-prone skin. Emulsified with **TeraTexture™**, an all-in-one thickener, texturizer, and emulsifier made from novel vegetable protein technology. Preserved with **TeraStat™ N**, a gentle and natural broad-spectrum preservative.

| Phase | INCI | Trade Name | % |
|-------|--|---------------------|-------------|
| A | Deionized Water | | Q.S. |
| | Pisum Sativum Peptide (and) Sodium Stearoyl Lactylate (and) Xanthan Gum (and) Trisodium Citrate (and) Magnesium Stearate | TeraTexture™ | 3.0 |
| | Glycerin | | 5.0 |
| | Caprylyl Glyceryl Ether (and) Caprylhydroxamic Acid (and) Propanediol | TeraStat™ N | 2.0 |
| | Helianthus Annuus (Sunflower) Seed Oil | | 5.0 |
| B | Squalane | | 5.0 |
| | Oleyl Adapalenate | Adapinoid® | 0.5 |
| C | Citric Acid OR Sodium Hydroxide | | QS pH ~ 5.5 |
| Total | | | 100.0 |

Procedure

1. Add water into the main vessel. Sift in TeraTexture under high shear propeller mixing. Continue to mix until uniform and clump-free.
2. Add the remainder of Phase A ingredients, mix until uniform. Heat to 80-85°C.
3. In a separate vessel, combine Phase B ingredients. Heat to 80-85°C and mix until uniform.
4. Add Phase B to Phase A at the same temperature under high shear propeller mixing. Start cooling.
5. Once at RT, adjust pH using Phase C.

Physical Properties

pH = 5.5 Viscosity = 6,920 cP Appearance: Semi-viscous off-white emulsion

Stability

Passed 12 weeks at 40°C and 3 cycles F/T

Use Instructions

Apply liberally twice daily or as needed to clean face and neck.

Intended packaging

Pump or dropper bottle

*Clinical Results

- Proven to reduce appearance of wrinkles, pores, and redness in an 8 week study
- 100% of women agreed the product was gentle on skin
- 92% of women noticed a softer, smoother complexion
- 85% of women agreed overall appearance of skin was improved

Efficacy claims based on home-use study with 13 female subjects with self-assessed wrinkles, pores, and redness

Actera

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