Zemea® the Natural Choice...
Purity and Renewable Performance

Zemea® Licorice Extract Fade Lotion with Veegum® Ultra

This fade lotion, stabilized with VEEGUM® Ultra Magnesium Aluminum Silicate, has excellent spreadability and residual skin feel. The natural licorice extract lightens dark spots to promote an even skin tone. The sunscreen contributes UV protection to inhibit further darkening and discoloration of the skin.

### Manufacturing Procedure

**Step 1.** While heating the water to 70-75°C, slowly add the VEEGUM® Ultra Magnesium Aluminum Silicate to the water agitated at maximum available shear. Mix until fully hydrated*.

**Step 2.** Add the remaining Part A water phase ingredients. Maintain the water phase at 70-75°C.

**Step 3.** Combine the Part B ingredients and heat to 70-75°C. When Parts A and B are each at 70-75°C, add Part B to Part A with adequate mixing.

**Step 4.** Cool with mixing to 40-45°C. Dissolve the licorice extract in the ethanol under agitation and then add to the batch while stirring to incorporate thoroughly. Warm the sample of retinyl palmitate to ~ 60°C and mix prior to weighing out. Mix it into the batch thoroughly.

**Step 5.** Cool with mixing to ~30°C; then add the preservative and mix thoroughly. If necessary, adjust the formula pH to 4.75 ± 0.25 with triethanolamine.

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### Prototype formula#604 provided by R.T. Vanderbilt Company, Inc., Tel: 1-800-243-6064.

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