SEPINEO™ P 600 belongs to the SEPINEO™ new range specifically dedicated to your topical drug developments.

**SEPINEO™ P 600 description**
The thickening- emulsifying polymer for topical applications.

In presence of water, SEPINEO™ P 600 reverses and the polymer network deploys instantly, forming a perfectly stable gel in a few seconds.

**SEPINEO™ P 600 benefits:**
- **Ready to use fluid form**
- **Very easy to handle at room temperature:** No neutralisation, No rehydratation.
- **Thickens over a large pH range:** pH 2 to 12
- **Stabilizes and thickens O/W emulsions**
- **Gel-Cream texture:** Emulsifies all oily phases at Room temperature
- **Good skin tolerance**
- **Regulatory status:** US-DMF n° 21266

Already used in a drug with NDA (New Drug Application)

**SEPINEO™ P 600: thickening power**
The SEPINEO™ P 600 thickens water from low concentrations. Increase of viscosity as a function of polymer concentration is linear and SEPINEO™ P 600 is effective over a very wide pH range. SEPINEO™ P 600 is able to thicken solvent-rich media such as ethanol, acetone, glycerin, glycols...Thus, it enables to formulate water sensible actives in anhydrous formulations.
**SEPINEO™ P 600: Emulsifying power**

SEPINEO™ P 600, an Hydro Swelling Droplet (HSD) polymer in an invert emulsion, is able to emulsify and stabilize many oily phases.

- **WITHOUT** addition of a conventional emulsifier
- **WITHOUT** HLB calculation
- **WITHOUT** neutralization (pre-neutralized polymers)

Different oily phases can be emulsified successfully, whatever their nature: polar and non-polar oils, vegetable oils, silicone oils, esters.

The **gel-creams** obtained are stable and have a perfectly uniform appearance. The “gel-cream” concept is a novel product form, very pleasant for the touch and spread on the skin.

**SEPINEO™ P 600: Emulsion stabilizing power**

In addition to these thickening/emulsifying properties, SEPINEO™ P 600 stabilizes conventional emulsions. In such cases, the SEPINEO™ P 600 concentration can be lower, from 0.5% to 2.0%, and must be determined according to the nature of the other ingredients of the formula.

**SEPINEO™ P 600: formulation advices**

**In emulsion**: SEPINEO™ P 600 performs well when added at the end of high temperature emulsification (≥ 70-75 °C). It can also be added at the beginning of the process in the oil or aqueous phase as it is perfectly stable at high temperatures.

**In gel-cream**: SEPINEO™ P 600 can be introduced either in the oily phase or in the aqueous phase: its performance in terms of texture and stability is similar whatever the process. However, the stirring step needs **less energy** when SEPINEO™ P 600 is introduced in the oily phase.

**In hydroglycolic/ hydroalcoholic/ acetone gel**: It is advisable to prepare the aqueous gel first and then add the solvent gradually, while stirring.

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**SEPINEO™ P 600 doses of use**

- **gel application** => thickening power: up to 5%
- **cream application** => stabilizing power: 0.5% to 2%
- **Gel-Cream** => emulsifying power: up to 5%

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**Nota**

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