

## Technical Data Sheet

**Product name:** Repoly 415

**INCI name:** SODIUM POLYACRYLATE & C13-14 ISOPARAFFIN & LAURETH-7

**CAS#:** 9003-05-8 & 64742-47-8 & 3055-97-8

### General Information:

Repoly 415 is a liquid, ready-to-use rheology modifier, stabilizer, thickener and emulsifier. It swells fast and allows you to create gel or cream immediately without neutralization or heat. It can emulsify all kinds of oil and disperse pigment and physical sunscreen. It is recommended to be used in skin cream, creamy gel, as single or union emulsifier. It can be used over a wide range of pH and makes it possible to obtain soft, supple and shining textures

### Specification:

Item	Specification
Appearance	Milky white or translucent
Solid content (%)	45.0-50.0
Viscosity (25°C, mPa·s)	1000-4500
Viscosity(25°C,2%soln,mPa·s)	50,000-80,000
Residual acrylic acid(mg/kg)max	20

\* These values indicate typical specification; they are not intended to be used as product specifications.

### Benefits:

- Applicable to all kinds of oil such as vegetable oil, polar and nonpolar oil, without heating or other extra treatment.
- Applicable to the formula that contains high content silicone.
- Efficiently thicken the formula that contains polar solvent.
- Particularly effective in wide pH range 5-10.
- Resist long time shearing and only has little viscosity decreasing.
- Resist UV radiation with no affect to viscosity.
- Good compatibility with active ingredients in cosmetics.

### End Application :

Cream, lotion, creamy gel

Make-up foundation and sunscreen cream

Formula containing polar solvent, alcohol and polyol

Formula containing silicone or AHA

**Formula guidelines**

Option 1, Blend Repoly 415 with oil phase. Add them into the water phase, mix until uniformly.

Option 2, Heat oil phase and water phase separately to 75-80°C. Add oil phase into water phase while mixing. Then add Repoly 415 into the emulsion at 60°C. Homogenize moderately for 15-20 minutes. It can't resist electrolyte, extra-thickener or increase the dosage is necessary.

**Dosage:**

Typically used at a level of

Used solely: 2.0~5.0%.

Used with other emulsifier: 0.2~2.0%

**Storage & Handling**

**Standard Packing:** 35kg/drum

**Storage:** Keep in Cool, Dry, Ventilated and Lightless Place.