Baycusan[®] C 1000

General information:

INCI Name	Polyurethane-34
Ingredient category	Film former
Chemical description	Water-based polyurethane polymer (anionic) including 1.5% antimicrobial additive
Appearance	Milky dispersion
Solid content	40.0±2.0
рH	7.5±1.0
Viscosity	≤500 mPa.s

Sustainability profile:

- Biodegradability: Reached a mean biodegradation rate of 60% within 60 days (OECD 301 ready biodegradability test*).
- Microplastics status: out of scope (2019 ECHA restriction proposal).

*Test perfored on the polymer itself.

Applications:

- Sun care: sun protection lotion/-milk & cream
- Skin care: face care, body care, foot-/hand cream & primer
- Color cosmetics: eye makeup & face makeup

Technical benefits:

Sun care

- SPF boosting
- Water resistance
- Helps to reduce eye irritation
- Enhanced stabilization
- Good skin feeling
- Non-greasy
- Not sticky

Color cosmetics

- Water resistance
- Comfortable wear

Others:

- Suitable for vegan products.
- Suitable for *cruelty-free* products.
- Suitable for *biodegradable* formulas.
- Marketable in China*. *Newly filed cosmetic ingredient under monitoring period.



Skin care

- Anti-pollution barrier
 - retention of active
- Enhances efficacy of
- Good rub-off resistance
- Skin breathability

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- Facilitates longer-lasting
 - ingredients on the surface of the skin
- active ingredients

Recommendations/Formulating tips:

Use level

3-20% as supplied

Compatibility

- pH: Products with pH between 4.5-8.0 can be formulated; ideally, we recommend adjusting pH to the 6.0-8.0 range.
- UV filters: Compatible with common used UV filters (mineral & organic).
- Salts: Supports only low level of electrolytes; we recommend the use of maximum 0.5% of sodium chloride.
- Ethanol: Compatible with up to 50% ethanol; forms milky dispersions.
- Chelating agents: Compatible with state-of-the-art • chelating agents.

Process

- Add Baycusan[®] C 1000 at the end of the formulation process below 40 °C.
- We recommend homogenizing before addition of Baycusan® C 1000 process below 40 °C.
- We recommend adjusting the pH before the addition of • Baycusan® C 1000. If necessary, pH could be adjusted with a diluted solution (at 10%) of either citric acid or sodium hydroxide after the addition of Baycusan® C 1000.

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- - Excellent sensory properties