## General information:

INCI Name	Polyurethane-99
Ingredient category	Film former
Chemical description	Water- based polyurethane polymer (anionic) with 1.5% antimicrobial additive
Appearance	Translucent to milky white dispersion
Solid content	40.0±2.0
pH	7.0±1.0
Viscosity	≤1000 mPa.s

# Sustainability profile:

- Naturality: 56% naturally-derived (ISO 16128)
- Biodegradability: Reached a mean biodegradation rate of 52% within 28 days (OECD 301 ready biodegradability test\*).
- Microplastics status: derogated (2019 ECHA restriction proposal).

# Applications:

 Color cosmetics: eye makeup, face makeup, lip makeup & nail polish

### Technical benefits:

- Waterproofing
- Water resistance
- Rub-off resistance
- Sweat resistance
- Non-transferring
- Anti-smudge
- Good & even color coverage
- High wearer comfort
- Easy to remove

#### Others:

- Suitable for vegan products.
- Suitable for cruelty-free products.
- Suitable for biodegradable formulas.

# Recommendations/Formulating tips:

#### Use level

3-10% as supplied



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#### Compatibility

- **pH:** Products with pH between 4.5-8.0 can be formulated; ideally, we recommend adjusting the pH to the 6.0-8.0 range.
- UV filters: Compatible with common used UV filters (mineral & organic).
- **Salts:** Supports low level of electrolytes. We recommend up to 0.5% of sodium chloride.
- Chelating agents: Compatible with state-of-the-art chelating agents.
- Ethanol: Limited compatibility with up to 20% ethanol; forms milky solutions.

#### **Process**

- Add Baycusan® CQ E 1001 at the end of the formulation process below 40 °C.
- We recommend homogenizing before addition of Baycusan® CQ E 1001.
- We recommend adjusting the pH before the addition of Baycusan® CQ E 1001. If necessary, pH could be adjusted with a diluted solution (at 10%) of either citric acid or sodium hydroxide after the addition of Baycusan® CQ E 1001.

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<sup>\*</sup>Test perfomed on the polymer itself.