PURABYK-R 5511

Rheology additive based on activated phyllosilicate for aqueous systems to generate thixotropic flow behavior in personal care applications (COSMOS APPROVED, NATRUE Approved).

Product data

Composition
Modified/activated phyllosilicate (INCI: Bentonite)

Vegan

Typical properties
The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Bulk density:	550–750 kg/m³
pH value (2 % in H_2O):	ca. 10
Moisture content:	max. 13 %
Sieve residue (45 µm):	max. 5 %
Whiteness (Elrepho R 457):	ca. 60–65 %
Color:	off-white
Delivery form:	free-flowing powder

Storage and transportation
PURABYK-R 5511 is hygroscopic and should be transported and stored dry in unopened original packaging at temperatures between 0 °C and 30 °C.

Applications

Personal care

Special features and benefits
PURABYK-R 5511 generates a thixotropic flow behavior in aqueous systems and provides excellent anti-settling properties. This enables the production of storage-stable formulations and facilitates their application. The additive is purely inorganic and stable against diluted acids and bases. Gels produced with PURABYK-R 5511 are also resistant to oxidation. The additive is compatible with anionic and nonionic surfactants as well as most emulsions and pigments.

Recommended use

Pressed powders	■
Blush	■
Eye makeup	■
Facial masks	■
Liquid makeup	□
Skin cleansing products	□

■ especially recommended □ recommended

Recommended levels

1–10 % additive (as supplied) based upon the total formulation, depending on the application.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

PURABYK-R 5511 is hydrophilic and can be easily wetted with water. It already starts to swell in cold water, but the use of warm water facilitates and accelerates the dispersion. To achieve optimum efficiency, complete dispersion of the material is necessary. Therefore, PURABYK-R 5511 should be incorporated under high shear forces, e.g. by using a dissolver.

The additive can be used as pre-manufactured pre-gel (containing 5–10 % PURABYK-R 5511). Stirring for approx. 15 minutes under high shear is recommended. To avoid post-thickening effects, this pre-gel should be allowed to age overnight before incorporation into the formulation. The pre-gel is then added to the water slowly whilst slowly stirring.

PURABYK-R 5511 can also be added as a powder to the water phase of the formulation.

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This issue replaces all previous versions.