

THIXCIN® R PC

Non-animal origin rheological additive for cosmetics and toiletries

GENERAL INFORMATION

THIXCIN® R PC is a non-hygroscopic derivative of castor oil that imparts a high degree of thixotropic thickening in cosmetics mineral, vegetable and silicones oils, as well as low-polarity aliphatic solvents.

THIXCIN® R PC provides thixotropy and imparts good pay-off in stick products; improves product stability when used in the oil phase of emulsions; and can be used as a binder in pressed powder formulations.

INCI NAME

Trihydroxystearin

CHEMICAL & PHYSICAL PROPERTIES

Appearance	White to light yellow powder
Acid value	Max. 3.0
% Heavy metals	Max. 0.001
Hydroxyl value	154.0 – 165.0
Iodine value	Max. 4.0
+325 Mesh residue, % (retain)	Max. 1.0
Saponification value	176.0 – 182.0
Melting point	85.0 – 88.0 °C

These are typical properties not to be used for specification purposes.

APPLICATIONS

- Creams and lotions
- Eye pencils & sticks
- Eye shadow
- Mascara
- Lip gloss
- Lipstick
- Lip balm
- Suncare products
- Nail polish

KEY PROPERTIES

- Adds thixotropic body and controls viscosity
- Reduces settling of pigments and extenders
- Produces optimum flow
- Enhances levelling
- Improves stick pay-off
- Provides binding in pressed powders
- Improves compatibility

INCORPORATION

THIXCIN® R PC should be added to the emulsion's oil phase or, in non-emulsion-based formulations, at the beginning of the dispersion process, preferably by pre-mixing the solvent or oil for 5 minutes before other components are added.

THIXCIN® R PC should be subjected to as much shear as possible during processing to develop its full properties. However, when using **THIXCIN® R PC**, an incorporation temperature range of 55-65°C must be observed; below 55°C, thixotropy will not develop; above 65°C, soft gel-like particles may appear on cooling the formulation. The presence of higher-polarity oils and solvents will lower this upper temperature limit. To avoid the particles forming, continuous stirring should be maintained until the product has cooled to below 45°C.

Incorporation of **THIXCIN® R PC** into dry systems is by normal powder blending techniques.

TECHNICAL DATA SHEET

THIXCIN® R PC

LEVEL OF USE

Typical addition levels are 0.2 to 0.8 % **THIXCIN® R PC** by weight of the system (or oil phase in emulsions), depending upon the rheological properties required.

In pressed powders, tablets and granules 0.5 to 2.0 % should provide adequate binding.

HEALTH & SAFETY

Before using this product, please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

STORAGE RECOMMENDATIONS

THIXCIN® R PC should be kept in a cool, dry location. Avoid stacking pallets.

SHELF LIFE

THIXCIN® R PC has a shelf life of 4 (four) years from date of manufacture.

QUALITY ASSURANCE

Quality and continuous improvement are paramount to our business. Facility manufacturing **THIXCIN® R PC** has established strong integrated management system and holds ISO 9001, ISO 14001, and ISO 45001 certifications.

SUSTAINABILITY

THIXCIN® R PC is a raw material approved by Ecocert Greenlife in accordance with the Ecocert standard for Natural and Organic Cosmetics.

THIXCIN® R PC is a raw material approved by Ecocert Greenlife in accordance with the COSMOS Standard.



COSMOS
APPROVED

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