

Application Sheet

Tefpoly® is a range texturizers and colourants consisting of composite materials based on Polytetrafluoroethylene (PTFE). Tefpolys® are available as non-coloured texturizers without surface treatment or with Perfluoroperhydrophenanthrene treatment. The colour composites in Tefpoly® range are surface treated with Perfluoroperhydrophenanthrene.

PTFE is amorphous in structure, and in combination with Perfluoroperhydrophenanthrene, it offers a comprehensive bonding site for pigments and lakes. Tefpolys® have a very soft feel, and they are ideal for long lasting colour care applications.

Trade Name	INCI Name
Tefpoly® WL 3 PFC	PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® WL 3 PUR	PTFE
Tefpoly® WL 5 PFC	PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® WL 5 PUR	PTFE
Tefpoly® Begonia	CI 15850 (Red 7 Lake) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Black	CI 77499 (Iron Oxides) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Blue	CI 77007 (Ultramarines) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Carbon Black	CI 77266 (Black 2) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Carmine	CI 75470 (Carmine) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Electric Pink	CI 45410 (Red 27 Lake) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Geranium	CI 15850 (Red 7 Lake) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Green	CI 77289 (Chromium Hydroxide Green) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Green Leaf	CI 77288 (Chromium Oxide Green) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Heliodon	CI 73360 (Red 30 Lake) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Iron Blue	CI 77510 (Ferric Ferrocyanide) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Magenta	CI 17200 (Red 33 Lake) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Melon	CI 15985 (Yellow 6 Lake) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Ocean Blue	CI 42090 (Blue 1 Lake) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Pink	CI 77007 (Ultramarines) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Poppy	CI 15850 (Red 6 Lake) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Red	CI 77491 (Iron Oxides) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Safran	CI 19140 (Yellow 5 Lake) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Violet	CI 77742 (Manganese Violet) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® White R	CI 77891 (Titanium Dioxide) (and) PTFE (and) Perfluoroperhydrophenanthrene
Tefpoly® Yellow	CI 77492 (Iron Oxides) (and) PTFE (and) Perfluoroperhydrophenanthrene

Benefits

- long lasting application
- soft feel
- ease of application
- photostable

Properties

- particle size: texturizers 3 or 5 microns, colours 6 microns
- good slip and low friction
- omniphobic
- heat stable



Application Areas

Colour Care

Tefpolys® can be used in all colour care formulations. Tefpolys® have a soft and elegant feel, and they glide on with ease. The non-coloured Tefpolys® function as texturizers improving application and wear qualities of formulations.

Tefpoly® colour composites are ideal for long lasting applications, as they are hydrophobic and lipophobic. Due to the omniphobic characteristics, Tefpolys® resist feathering and creasing making them ideal for lipsticks and glosses and eye shadows. They are especially recommended for long lasting lipsticks in which they give superior performance.

Formulating

Tefpolys® have good heat stability, and they are not sensitive to grinding nor homogenizing.

Emulsions

When adding Tefpolys® to emulsions, they should be predispersed into the oil phase before emulsification. This should be done with high shear mixing.

Powder Applications

Tefpolys® should be added to the formulation after the powder base has been formulated. The binder system should be added after the colour shading.

Anhydrous Systems

Tefpolys® need to be predispersed in oil by high shear mixing before being combined with the other ingredients in the formulation or before any waxes are added to the oils. Good choices for dispersion medias are for example our Alphaflow® and Dedraflow® products.

Typical use level: 5-15%

Packaging: 25 kg sealed aluminium bag in cardboard box