

Applications

What is coating?

A coating is a covering that is applied to the surface of an object, or substrate, and then a solid coating film or layer are formed on the substrate after the drying process.

In typical applications, the coating film should not be peeled off from the substrate and the purpose of coating film may be decorative, functional, or both.

In some other certain applications, a free stand film can also be made by the coating technology after the wet film is dried and peeled off from the substrate.

Syensqo Specialty polymers for coatings

Perfluoropolyether: Fluorolink® PFPE

PFPE can be used as a surface treatment agent and as an additive to alter polymer properties, reduce surface energy and make it self-lubricating, as well as hydrophobic and oleophobic.

Fluorinated polymers: Halar® ECTFE, Hylar® PVDF, Solvane® EAP

Fluorinated polymers can greatly improve coating performance, making them extremely suitable for harsh end use environments that require long-lasting surface protection, high thermal stability, and first-class chemical resistance. PVDF and EAP can also be used as piezoelectric materials.

High barrier polymer: Diofan® PVDC, Ixan® PVDC

PVDC has unique characteristics of blocking oxygen and water vapor, providing safe and reliable drug and food packaging, and has the best metal corrosion protection performance.

Aromatic polymers: Torlon® PAI, KetaSpire® PEEK, Veradel® PESU, Duradel® PPSU, Ryton® PPS

Aromatic polymers have excellent chemical resistance and high processing temperatures. They are used as high-temperature coatings and to enhance the adhesion of polymers to various substrates.

Application areas for Syensqo Specialty polymers

Low surface energy coating

PFPE



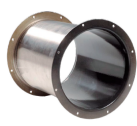
Barrier coating

PVDC



Anti-corrosion coating

ECTFE, PAI, PEEK, PPS
etc.



Cookware non-stick coating

PAI, PESU, PPSU,
PEEK



Construction coating

(PVDF)



Piezoelectric films

(Solvane, PVDF)



Coating for Electrification

