PURE-CHEM

COMPANY PRESENTATION

HYPERCOAT®
& PURE-COAT®

High-tech polymer coatings



High-tech polymer coatings

01

Covalent bonding

The products bond covalently to the surface of a wide range of substrates, ensuring excellent adhesion.

02

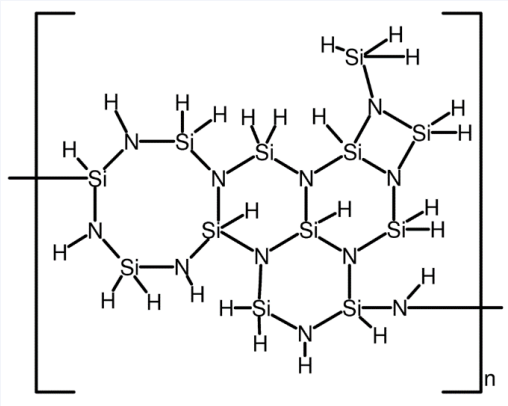
Low-temperature curing

At room temperature the film cures into a thin glass/quartz-like layer (SiO_2).

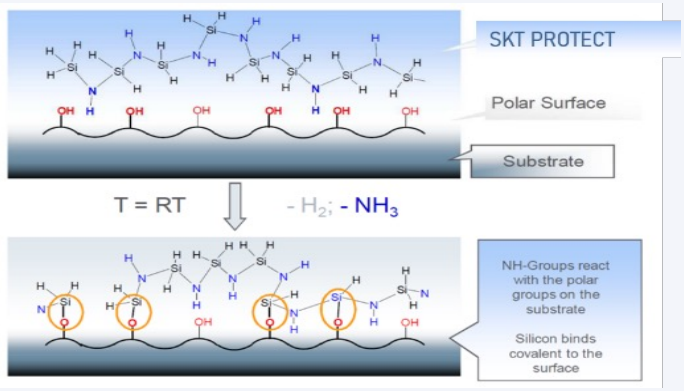
03

Accelerated process

Curing can be accelerated with UV light or heat.



Polymer structure



Substrate bonding mechanism

Properties

up to

1000 °C

Temperature resistance

up to

900 HV

Vickers hardness (ASTM E18-11)

Clear and colourless

Invisible on the substrate

Gas barrier

Gas barrier effect

Mechanical resistance

ASTM 2794

Thermal cycling

DIN EN ISO 11341

Chemical resistance

To chemical agents

Abrasion resistance

Hard, glass-like surface

Corrosion resistance

DIN EN ISO 9227 · 16474-2 · 6270-2

Easy to clean

Effortless cleaning

Food contact

Suitable for food contact

Fields of application



Aerospace

HYPERCOAT® 90103 · WS 82



Automotive

PURE-COAT® C20+



Wind energy

PURE-COAT® WE 30



Marine

HYPERCOAT® V3 · RM 20



Solar energy

HYPERCOAT® V3



Metal surfaces

PURE-COAT® BARRIER



Anti-graffiti

PURE-COAT® BARRIER



Glass

PURE-COAT® P-GLASS



PRODUCT PORTFOLIO

Product range

SECTOR	PRODUCT
Aerospace	**HYPERCOAT® 90103** **HYPERCOAT® WS 82**
Automotive	**PURE-COAT® C20+**
Wind energy	**PURE-COAT® WE 30**
Marine	**HYPERCOAT® V3** **HYPERCOAT® RM 20**
Solar energy	**HYPERCOAT® V3**
Metal surfaces – Anti-graffiti	**PURE-COAT® BARRIER**
Glass	**PURE-COAT® P-GLASS**



Aerospace

PRODUCTS

HYPERCOAT® 90103
Full aircraft coating

HYPERCOAT® WS 82
Windows and windshields

BENEFITS

- Reduced friction and turbulence
- Significantly lower fuel consumption
- Higher aircraft speed
- Protection of the aircraft paint
- Reduced maintenance
- Easy to clean



Automotive

PRODUCT

PURE-COAT® C20+

Ceramic coating for bodywork
Protective coating for glass
Restoring coating for plastic parts

BENEFITS

- Reduced friction and turbulence
- Lower fuel consumption
- Easy to clean
- Reduced maintenance
- Scratch resistance



Wind energy

PRODUCT

PURE-COAT® WE 30

Wind turbine blade coating

BENEFITS

- Reduced friction and turbulence
- No ice build-up
- Reduced maintenance
- Less surface dirt (bird droppings, smog, etc.)
- Reduced surface erosion
- Protection against minor impacts



Marine

PRODUCTS

HYPERCOAT® V3

Underwater hull
Propellers

HYPERCOAT® RM 20

Topsides, metal parts
Glass, wood

BENEFITS

- Reduced hull friction and turbulence
- Lower fuel consumption
- Higher vessel speed
- Reduced fouling with no chemical release
- Lower maintenance costs
- Resistance to seawater and salt corrosion
- Weather resistance



FIELD OF APPLICATION 05 / 08

Solar energy

PRODUCT

HYPERCOAT® V3

Coating for photovoltaic and solar panels

BENEFITS

- Improved hail resistance
- Easy to clean
- Reduced maintenance
- Reduced ice formation



Metal surfaces

PRODUCT

PURE-COAT® BARRIER

Sheet metal, steel, aluminium and other metal surfaces

BENEFITS

- Corrosion protection
- Fewer fingerprints
- Self-cleaning effect
- Reduced maintenance
- Protection of painted parts



PURE-CHEM

Anti-graffiti

PRODUCT

PURE-COAT® BARRIER

Non-porous surfaces

BENEFITS

- Permanent anti-graffiti protection
- Clear coating



Glass

PRODUCT

PURE-COAT® P-GLASS

Clear surface coating for glass

BENEFITS

- Easy to clean
- Reduced maintenance
- Permanent protection

Packaging



CONSUMER USE

Bottles

125 ml to 500 ml



PROFESSIONAL USE

Bottles

1 L to 5 L



PROFESSIONAL USE

Drum

200 L



Thank you

HYPERCOAT® & PURE-COAT® · High-tech polymer coatings