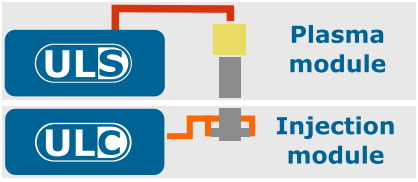
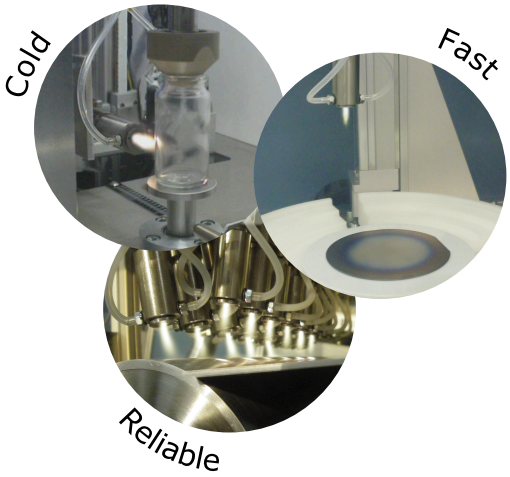
Thin film coating

Surface treatment module

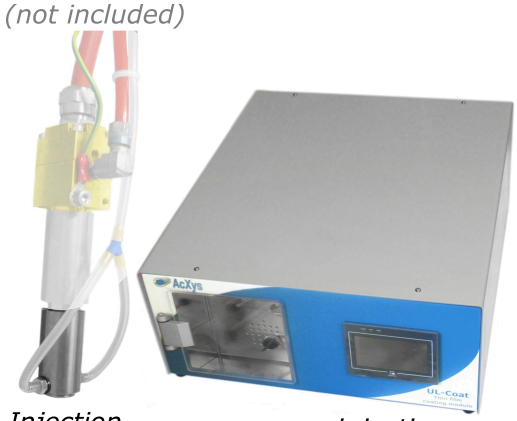
Atmospheric plasma thin film silicon oxide coating

- Thin film coating of SiO_2 or SiO_x
- Operating in open air
- Cold and fast coating
- Easy to use
- Easy to carry & integrate





ULS nozzle (not included)



Injection nozzle

precursor injection device

Precursor injection module

- HMDS type liquid precursor
- Liquid precursor and carrier gas flows control
- Touch screen interface
- Injection nozzle compatible with ULS nozzle
- Stand-alone or OEM

Industrial applications

Gas barrier layer

Deposited into a plastic container or glass, SiO2 provides tightness between the atmosphere and content.

anti-corrosive layer

The properties of SiO2 can be used to limit interaction between solids and liquids, or migration of certain elements in metals.

Anti-scratch layer

The thickness and strength of SiO2 provide an anti-scratch property on sensitive materials.

Other...

Acxys Technologies also offers the opportunity to develop new deposits for new applications: TiO2, Cu, SnO2 ...

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Innovative plasma solutions

AcXys Technologies

Surface treatment module

SiO2 coating using atmospheric plasma

Technical details

Precursor injection module	**Module size**	Lenght:520 mm Width:460 mm Height:210mm
	Module weight	15 Kg
	Power supply	230V - 50/60Hz - 2A
	Carrier gas	Compressed air or nitrogen
	Extraction flow recommended	10 m3/h
	Liquid precursor	HDMS, n° CAS 1450-14-2
	Precursor tank	30ml
SiO2 coating	**Thickness**	50nm to 1000nm
	Homogeneity	+/- 2%
	Roughness	Ra <2nm (for 50nm thickness)
	Transmittance	>98% for 50nm thickness

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