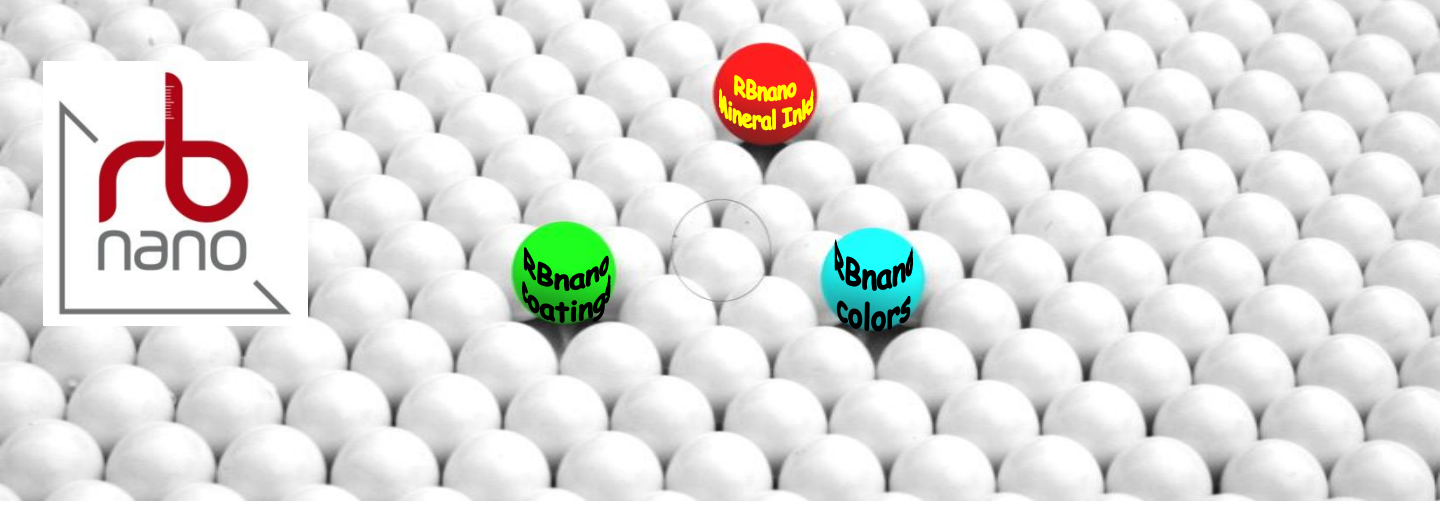


Welcome to the RBnano family Products !

Let yourself be won by the products of the nano world

Our products will convince you that some providers are missing

Markings from nano to macro,
Nano-metrology,
Surface treatment,
Sensors development
Colored nano-coatings

Get higher productivity

- Minimize your manufacturing process
- With green process
- Consuming less raw material
- Simplifying your technical process

Find your pay-back

- By reducing production costs
- By reducing your maintenance costs
- By getting high standard of quality

The familly of Inks RBnano-MINK

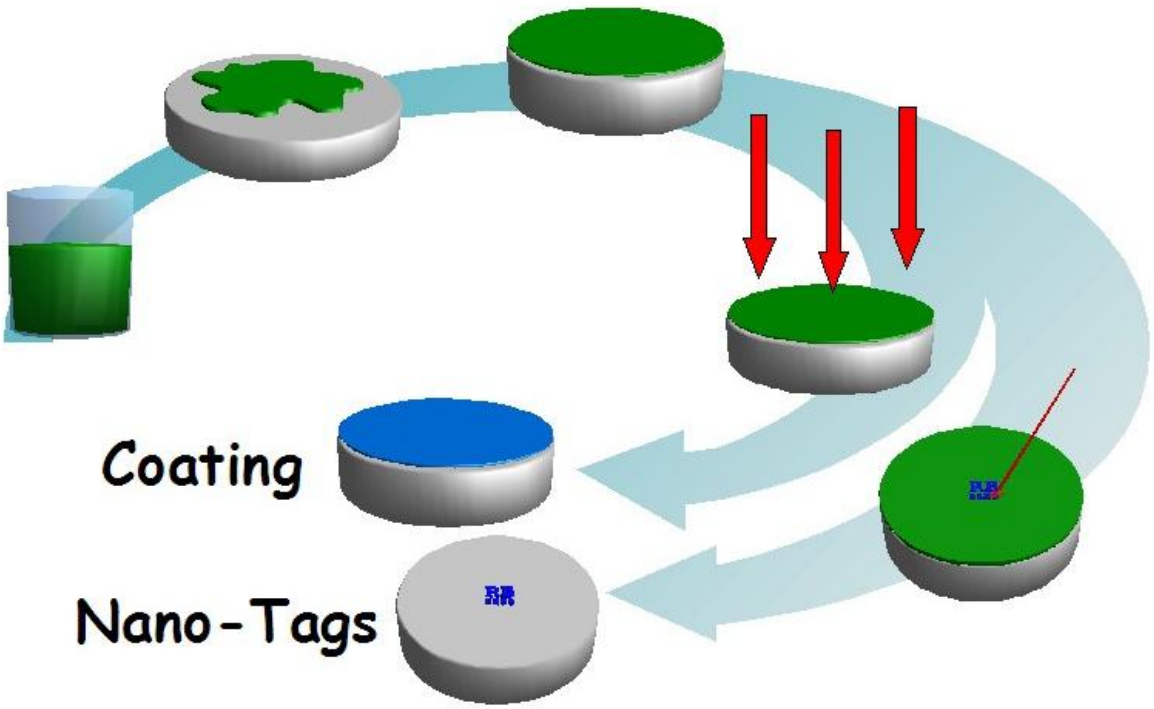
End using	**RBnano-HARC**	**Hard Coating**
	RBnano-MCC	**Metal Color Concept**
	RBnano-PCC	**Plastic Color Concept**
	RBnano-SCC	**Surface Color Coating**
	RBnano-ITO	**Indium Tin Oxide sol-gel flowable conductive coating**
	RBnano-HYB	**mineral-organic Hybride coating**
	RBnano –TAG	**nano targets or Tags for metrology at nanolevel**

The Family of RBnano-MINK Mineral Ink

Our exclusive process uses the inks of the family **RBnano MINK** to treat or coat your surfaces with functional materials. Based on soluble oxide precursors, **Rbnano Inks**, can be easily mineralized into an oxide by energy input, in the open air **Without vacuum** device. It can be used either in **markings**, **coatings** or **surface treatments** and provide functional ceramic properties such as hardness chemical resistance, magnetism, conductivity, color…

RBnano MINK can be treated by a concentrated laser beam to develop markings of an extreme thinness (20nm). The product **Id'hol**, identification hologram, is one of the innovations that results from this capability.

The process of turning your surfaces coatings into a functional ceramic material is made by **RBnano MINK** by LT curing. The ink is sprayed and turned into an oxide layer by mineralization process since 180°C, no vacuum, with good adhesive properties on all materials.
It is a substitution process for type methods such as PVD process.



Available compounds	Fe_2O_3, Al_2O_3, SiO_2, ZnO, SnO_2, In_2O_3, TiO_2, ZrO_2, Ln_2O_3, $CoFe_2O_4$, $BaTiO_3$, $PbTiO_3$, $BaAl_2O_4$, ITO, Y_2O_3/Eu (rouge), $ZnSiO_4$/Mn (vert), (BaMg)Al_2O_4/Eu (bleu), semiconductors (CdS, CdSe, ZnS, PbS …), metallic deposit.
Product support	Silicium, glass, glass-ITO, ceramics, saphire, steel, aluminum, noble metals, plastic, flat or curved support!
End applications	markings from nano to macro Hot and wet corrosion coatings Chemical attack protection on metallic or vitreous surfaces Sensor development catalysts Adhesion enhancement flattening.

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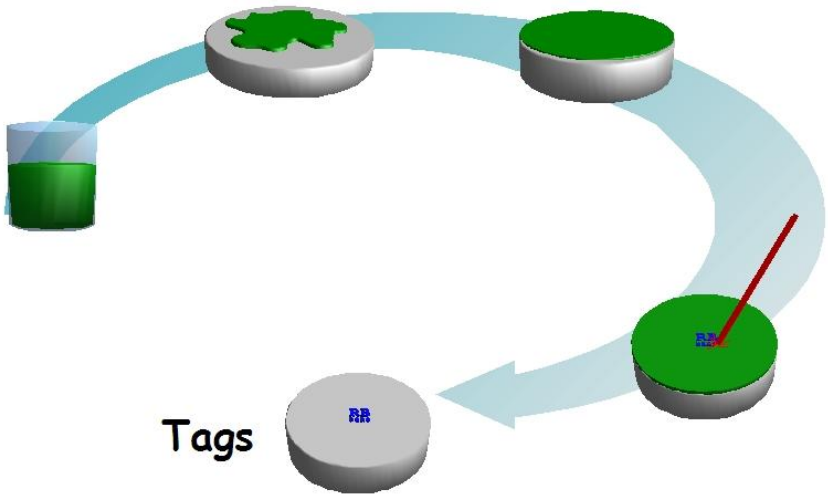
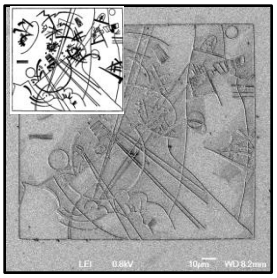
RBnano-NanoTags

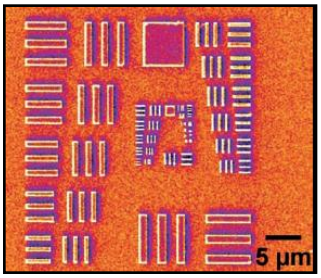
The brand line of inks issued from the family of **RBnano MINK** are used to shape nano-scale markings.
Having done ink deposit on the object we use an intense beam of energy (laser, electron) to mineralize the matter locally.
Removal of unaffected ink is done easily by water washing.

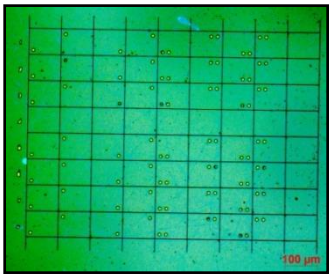
Mineralized marks keep stamped on the surface and their thickness can vary from 20nm to 200nm.
This technique allows to shape easily:
- Nano-targets,
-Tools of calibrations for microscope
-Measuring and tracking tools in micro-mechanics.
-Diffractive optical elements.

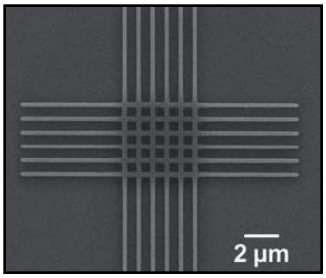
It is also a new and original technique to prevent chemical reactions, and it is easy to use !
Supply of functional materials (magnetic, optical, dielectric...) in very accurate areas allow us to create original sensors and realize low cost productions for a limited number of items.
We are able to manage with objects of all sizes and we have the know-how needed to answer all your requirements.











Available compounds	Fe_2O_3, Al_2O_3, SiO_2, ZnO, SnO_2, In_2O_3, TiO_2, ZrO_2, Ln_2O_3, $CoFe_2O_4$, $BaTiO_3$, $PbTiO_3$, $BaAl_2O_4$, ITO, Y_2O_3/Eu (red), $ZnSiO_4$/Mn (green), (BaMg)Al_2O_4/Eu (blue), semiconductors (CdS, CdSe, ZnS, PbS ...), gold deposits.
Product support	Silicium, glass, glass-ITO, ceramic, saphire, steel, aluminum, precious metals, plastics, any shape any roughness and forms!
End applications	Tags from micro to nano, targets, grids, mask, calibration grids in sub micron range, DOE, sensors.

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RBnano-MCC Metal Color Concept

We used RBnano-MINK to produce colored coatings which can be sprayed in very thin layers in such a way as to show the product support underneath.

It is a **polished metal coating** close to anodisation aluminum but no drenching is needed. **RBnano-MCC** can be easily sprayed on all metallic surfaces, polished or brushed.

Rbnano is involved in environmental concerns. Our green process don't generate toxic waste, no sewage to recycle.

Uses	-wide range of colors -transparent surface allows texture support to be seen through.
Product support	-aluminium, titanium, stainless steel ,brass, nickel-brass, brass-plated (polished or brushed
Technical guarantees	-wide range of colors available -resist at pencil test: hardness 5H -resist at ultraviolet test 365nm /24h -watertight, stand up to alcohol and acetone
Application procedure	-can be sprayed, stamped or soaked - fast drying (from 15s to 2min) -curing temperature between 80°C and 200°C - no heavy, toxic or polluting solvent
Fields of application	-Watch industry, jewellery, hands, case, strap, face -architectural design, hardware business, -design, furniture

RBnano provides also mineral pecursors in lithography, electronics, hard antireflective coating monolayer for glass and saphir, ITO sol-gel inks and is able to develop any kind of special mineral ink for any application

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RBnano-PCC Plastic Color Concept

We used **RBnano-MINK** to produce colored coatings which can be sprayed in very thin and hard layers in such a way as to show the product support underneath. It is a **coating for structured plastic surfaces. RBnano-PCC** can be easily sprayed or stamped on all polymer surfaces. Provides deep colors, without thick dye layer.

Uses	-wide range of colors -do not affect texture
Product support	- PP, ABS, Nylon, PC, PMMA
Technical guarantees	-wide range of colors available -resist at pencil test: hardness 5H -resist at ultraviolet test 365nm /24h -watertight, stand up to alcohol and acetone
Application procedures	-can be sprayed, stamped or soaked -fast drying (from 15s to 2min) -curing temperature between 50°C et 200°C -no heavy, toxic or polluting solvent
Application fields	-watch industry, case, hands, strap, face -jewerlly -design, furniture, adornment -markings on plastic supports -car industry

RBnano provides also mineral pecursors in lithography, electronics, hard antireflective coating monolayer for glass and saphir, ITO sol-gel inks and is able to develop any kind of special mineral ink for any application

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