

S A T I N A L

*Art in Frosting*





*What we see depends mainly on what we look for.  
(cit. John Lubbock)*

**SATINAL** is the name of a product “created” at the end of the sixties from Lucchini brothers, owners of a small supplying company of raw materials for the glass industry, in the area of Milan.

In those years, the frosting process, discovered *nearly* a century before, started spreading over especially in Italy and France, where the glass industry, very closed to lighting, cosmetics and beverage manufacturing, had an ancient tradition.

During that period, companies specialized in this kind of process had to produce on their own the frosting product with quality problems and above all security risks. In fact, on the market a ready-mixed and ready for use compound did not exist.

Lucchini brother’s intuition consisted in formulating a high quality pre-mixed recipe ready for use and packed in appropriate bags easy to handle for the operators and easy to ship throughout the world.

This is the birth of **SATINAL**, whose name is the union of the words “Satin” from *silk satin* (a textile with a surface particularly pleasing to the touch ) and the first letters of the creators’ names.

At the beginning of 2000s, the new market conditions and the increasingly strict rules on security and health pushed the Lucchini company to sell the “**SATINAL**” formulation to the present owner, who worked on the product relaunch investing in new equipment and human resources.

Today **SATINAL** is a company specialized in the production of performance materials for the glass industry (hollow and flat glass), with a wide range of products for every need and the possibility to create formulations “on demand”, with customers all over the world.

Starting from the first years of 2000s until today, the production is tripled and from the simple name of a product, “**SATINAL**” has become the name of a company, globally known in its sector.

In the second half of 2013 **SATINAL** Spa has bought the majority of another company, called “Tecno Kilns” specialized in the manufacturing of equipment for the hot flat glass treatment (laminating, tempering, bending and fusing kilns), giving life to “**SATINAL-TK SRL**”.

**SATINAL** is a chemical frosting/etching powder used for obtaining an uniform velvety matt effect on hollow and flat glass. **SATINAL** is specific for the chemical acid etching/frosting of glass bottles for the beverage industry, glass containers and jars for the cosmetic industry , glass lamps for the lighting industry and glassware/tableware in general.

**SATINAL** is synonym of quality and reliability.

The **acid etching (or glass frosting)** is a chemical decorative process for hollow and flat glass. Glass surface is chemically attacked, that produces a superficial roughness, creating the typical frosted appearance (called also “matt effect”). Unlike the mechanical process (sandblasting), "chemical" etching has no negative effect on glass resistance, which maintains its impact and temperature leap resistance.



**Range of frosting/etching  
Performance Materials**





## **SATINAL “S” MICRONIZZATO**

Recommended for users that have manual/semiautomatic/automatic equipment, it gives a transparent finishing, pleasing to the touch (velvety). Particularly suitable for the use of Hydrofluoric Acid.

## **SATINAL “PLUS” MICRONIZZATO**

Recommended for users that have manual/semiautomatic/automatic equipment and need a quick frosting with a quality level constant over time, but always pleasing to the touch, also in case of high production volumes. Particularly suitable for the use of Hydrochloric Acid.

## **SATINAL “++” MICRONIZZATO**

Recommended for users that have fully automatic equipment and make glass frosting with formulations of particular “hardness”. Specifically suitable for the use of Hydrochloric Acid.

## **SATINAL “PLUS” SUPER WHITE**

It has basically the same characteristics of SATINAL PLUS, but in addition has a special white and covering finishing. Specifically suitable for the use of Hydrochloric Acid.

## **SATINAL “FLAT GLASS”**

Recommended for the frosting of glass sheets (clear, extraclear, coloured, mirror, coloured mirror), it gives a covering and uniform finishing. Particularly suitable for the use of Hydrofluoric Acid.



**Range of applications**



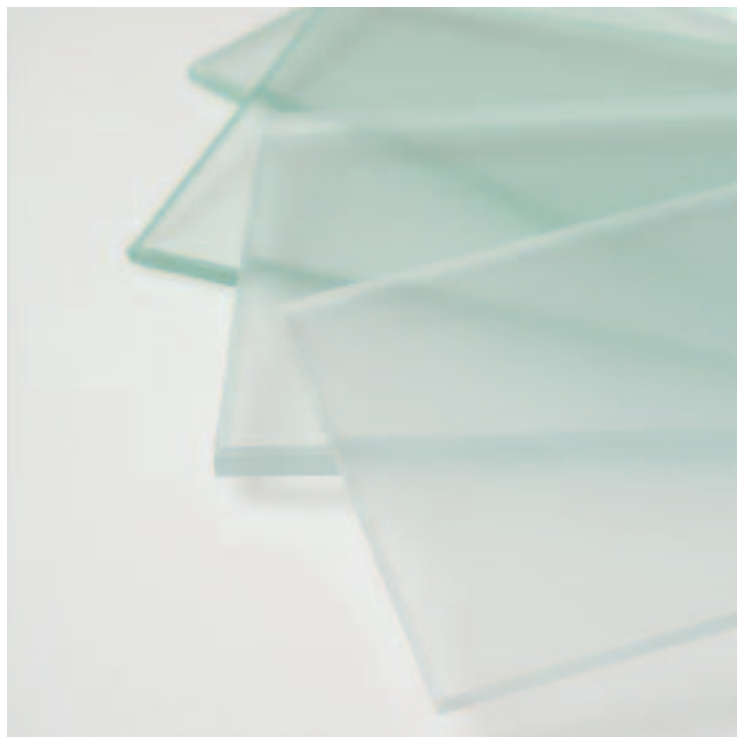
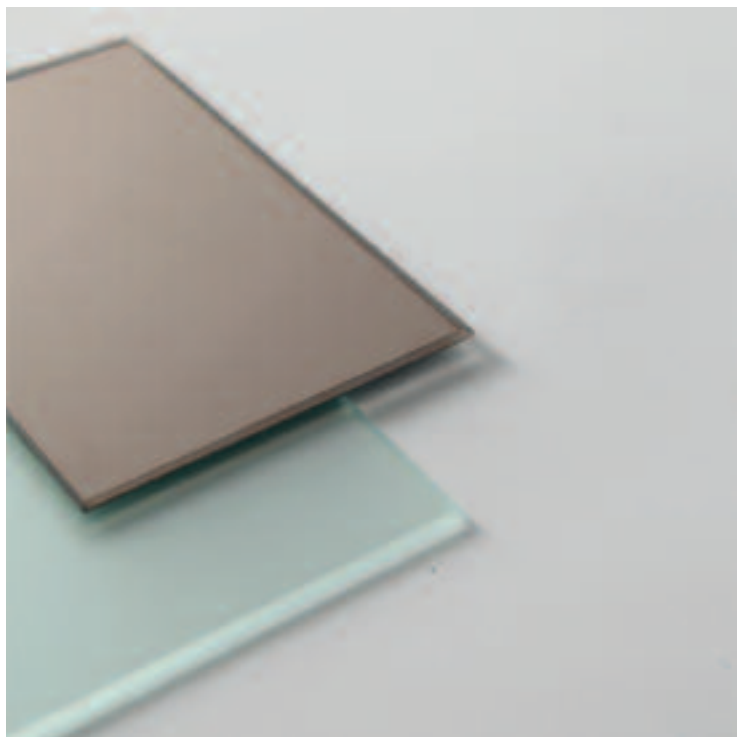


















# **Our Strong Points**

## **Quality**

All Satinal products are prepared using exclusively raw materials of European origin and certified quality.

The production is scrupulously controlled and respects the “just in time” principle, in order to send to the customer always a fresh product.

## **Flexibility**

Instead of accumulating a warehouse stock, the flexibility has been moved to the productive sector for reducing the time from the order’s reception to the delivery of the product to few days.

The customer can decide to plan the deliveries monthly or further, to delete or modify the orders until five days before the loading, without extra costs.

## **Security**

All Satinal products are packed in homologated bags certified for chemical use and equipped with security form, trem card and use mode of the product.

In case of customer’s request, transport loading and closure are documented by pictures, sent in real time.

## **Customer care**

We offer to our customers assistance for all documents related to our product and in particular those concerning ADR/IMDG rules, which control the transport of dangerous goods.

## **Research & Development**

With the lack of a chemical literature able to explore the glass frosting world, in last years, “Satinal Spa” has worked at the realization of a research about frosting, from raw materials to different formulations for obtaining various finishings and environmentally-friendly products.

Obviously the results of this research are reserved, but some of them have been object of the graduation thesis in “Industrial Chemistry” of one of our collaborator and have been used for the realization of the “Satinal technical manual”, a document unique in its kind, which contains useful information and suggestions for a correct and secure approach to the glass frosting process.

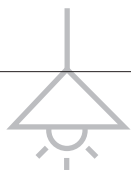
## **Technical support**

In case of customer’s request, we offer our support during the first trial of our products and the possibility to make pre-production tests on their glass.

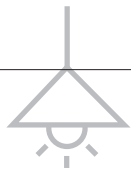
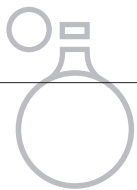




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