



CERTIFIED COATINGS WITH LOW EMISSIONS

for furniture with no impact on health



YOUR FURNITURE IMPROVES THE AIR QUALITY

You can produce woodworks attentive to health,
also that of sensitive individuals
such as children and elderly,
thanks to certified topcoats with low emissions



GREENGUARD

PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818

GOLD



Your production for human and environmental health

Renner Italia - GREENGUARD Gold coatings enable production of woodworks with low volatile organic compounds (VOC) emissions, reducing the impact of the exposure in indoor spaces, thus, improving the air quality and being attentive to health. An increasing number of studies proves that indoor air can be from 2 to 5 times more polluted than outdoor air. Materials used for furniture, components and decoration weigh on this evaluation. They release chemical substances that are unavoidably inhaled. In a world in which people spend 90% of their time indoors and more and more people suffer from pathologies such as asthma and allergies*, you can do your part by choosing Renner Italia - GREENGUARD Gold coatings for your furniture and offering your customers a better air quality.



Your attention to sensitive individuals

Compared to a standard GREENGUARD Certification, GREENGUARD Gold Certification considers special safety factors for sensitive individuals such as children and elderly. GREENGUARD Gold trademark certifies, for example, that these Renner Italia coatings are suitable for use in places such as schools or medical centres. In addition to limiting the VOC emissions and the total chemical emissions, the products with GREENGUARD Gold Certification comply with the requirements established by the California Department of Public Health regarding methods of test and evaluation of VOC emissions from sources in indoor spaces using environmental chambers**.



Your offer: serious, controlled, certified

Renner Italia - GREENGUARD Gold coatings are tested and certified by UL (Underwriters Laboratories), global leader organization in the field of safety applied to indoor air quality. These topcoats can show off the GREENGUARD Gold Certification, i.e. the most known and esteemed test of compliance to the strict UL standards. Make your commercial offer different from competitors! Stand out on the market as a modern manufacturer, attentive to health and environment, by using products with GREENGUARD Gold Certification. These products already have a high level of visibility. They are considered as purchase specifications by thousands of companies and institutions from all over the world. The recognizability of a company that uses GREENGUARD Gold products will strengthen further in the future.

*According to the World Health Organization 20% of the global population suffers from respiratory allergies. From 100 to 150 million people in the world do actually suffer from asthma.

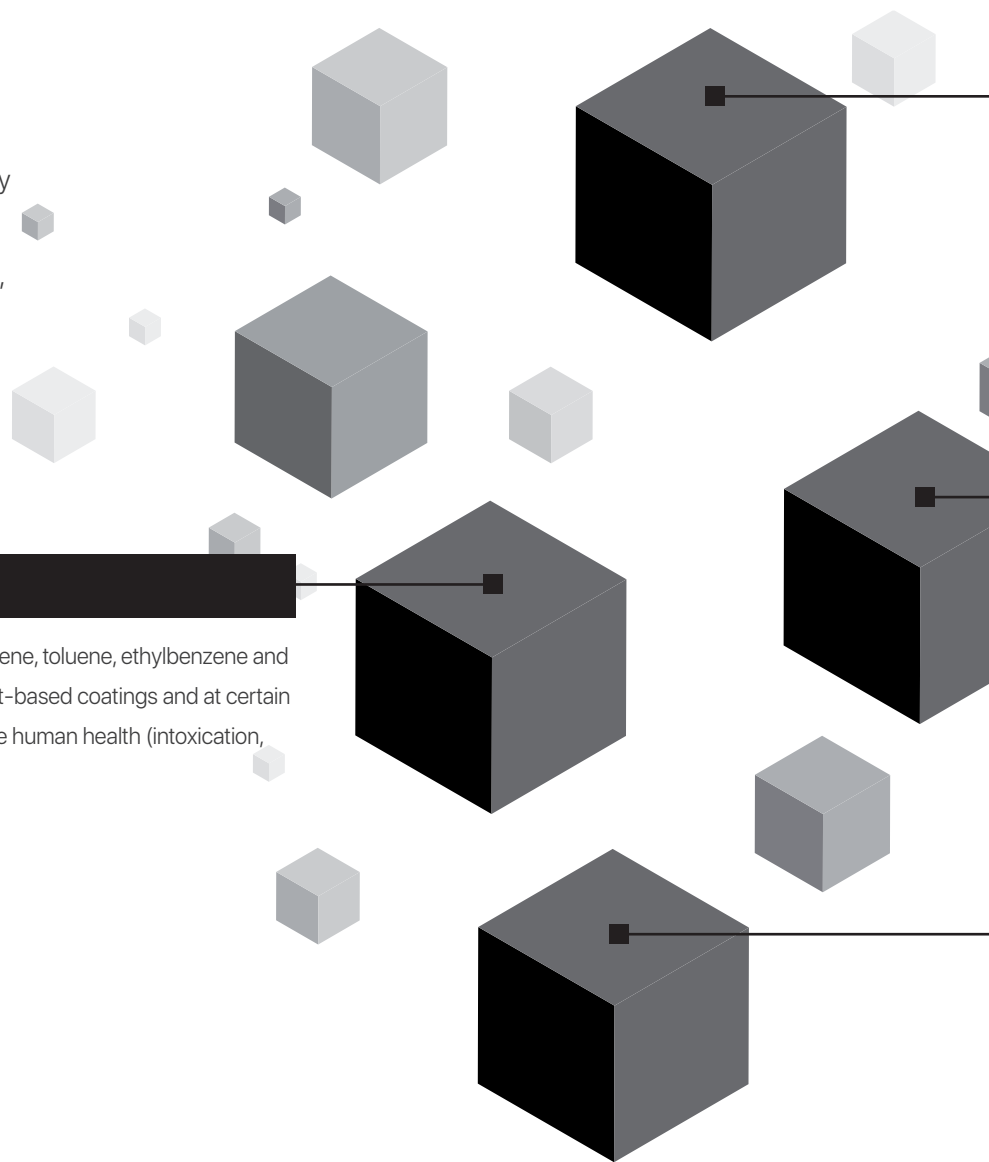
**Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1 (2010) [California 01350].

NO HARMFUL SUBSTANCES ARE RELEASED INTO THE AIR

Renner Italia obtained GREENGUARD Gold Certification for a specific range of solvent-based coatings to be used in indoor spaces. These products enhance the furniture. Once through dry, they release into the air quantity of harmful substances for the human health near to zero: BTEX, volatile organic compounds (VOC), volatile aldehydes and phthalates.

BTEX

Aromatic compounds, such as benzene, toluene, ethylbenzene and xylene, are inside formulas of solvent-based coatings and at certain concentrations they can damage the human health (intoxication, dermatitis, dizziness, nausea...).



Volatile organic compounds (VOC)

These chemical compounds spread quickly into the air and can be easily inhaled. They can have unpleasant smell and cause irritation to eye, nose, mouth and throat, dizziness and strong migraine.

A prolonged exposure to these substances can cause serious chronic diseases.

Volatile aldehydes

The most famous one is formaldehyde, a molecule with two harmful features: the high spread into the air and the high toxicity.

In certain concentrations it can cause irritation to the respiratory system and sight, above all to people that suffer from allergy and asthma. If ingested or inhaled in remarkable quantities, formaldehyde is lethal. Renner Italia removed formaldehyde from all its formulas.

Phthalates

These chemical compounds are derivatives of petroleum and can inhibit the development of male and female genitals and also the maturation of sperms.

Topcoats with GREENGUARD Gold Certification have been tested and have passed strict UL tests, thus ensuring the abatement of indoor emissions of aldehydes, aromatic compounds and volatile organic compounds. These hi-tech coatings are intended for architects, designers, contractors, final users and whoever wants to build life and work spaces with high levels of salubrity. Needless to say, that the green commitment doesn't affect performances. Just like all Renner products, also coatings with GREENGUARD Gold Certification ensure top performances in terms of aesthetics, resistances and duration.

FOCUS

Renner Italia and the environment

Renner Italia believes that chemistry plays a leading role in the challenge of sustainable development. In other words, it must satisfy the contemporary needs while safeguarding the rights of the future generations.

For this reason

- our industrial site is fed by electrical energy 100% from renewable sources;
- in agreement with the trade unions we agreed bonuses for workers, choosing rigorous practices of energy saving during daily work;
- in order to reduce special hazardous wastes, we package our coatings in a special high-density polyethylene removable bags placed inside the metal cans;
- wherever we work, we promote the use of low emissions coatings, that do not contain formaldehyde and heavy metals.

HIGH SALUBRITY, HIGH TECHNOLOGY

Renner Italia obtained GREENGUARD Gold Certification on 10 widely used hi-tech products. As all other Synthesis products, these coatings have remarkable aesthetics performances and excellent resistances. Such coatings are specific for the use in indoor spaces: flat parts, tables, shutters, doors, furniture.



TEXTURIZED COATINGS

WHITE TOPCOAT FO-10C666/TXC02 AND NEUTRAL CONVERTER FO-05C666/TXNTR

Texturized white topcoat and texturized neutral converter. They show very high surface hardness and resistances. They can be pigmented to create endless shades: NTR version is perfect for full tones, whilst C02 version for pastel colours. The white version is highly resistant to yellowing.

Application

Conventional spray gun



SURFACE
HARDNESS



CHEMICAL
RESISTANCES



NON-YELLOWING



NEUTRAL MATT CONVERTERS FO-10M060/--NTR AND FO-25M060/--NTR

Solvent-based neutral matt converters, in 10 and 25 gloss version, have high surface hardness, excellent chemical resistances and proved colour stability over time. They can be pigmented to create endless colours and full tone shades. Both products ensure the flawless replicability of Color System tinting system of Renner Italia.

Application	Conventional spray gun	Airless	Air-mix	Curtain coater
-------------	------------------------	---------	---------	----------------



SURFACE
HARDNESS



CHEMICAL
RESISTANCES



COLOUR
STABILITY



REPLICABILITY



NON-YELLOWING

WHITE MATT CONVERTERS FO-10M059/--BNC AND FO-25M059/--BNC

Solvent-based white matt converters, in 10 and 25 gloss version, have high surface hardness, excellent chemical resistances and proved colour stability over time. They can be pigmented to create endless colours and pastel shades. Both products ensure the flawless replicability of Color System tinting system of Renner Italia and have a high resistance to yellowing.

Application	Conventional spray gun	Airless	Air-mix
-------------	------------------------	---------	---------



SURFACE
HARDNESS



CHEMICAL
RESISTANCES



COLOUR
STABILITY



REPLICABILITY



NON-YELLOWING

WHITE AND NEUTRAL HIGH-GLOSS CONVERTERS FB-XXM585/--NTR AND FB-XXM585/--BNC

Solvent-based high gloss converters, neutral and white, ensure great flow. They have remarkable surface hardness, strong chemical resistances and excellent colour stability over time. They grant an appreciated glossy effect and a great build. They can be pigmented to create endless colours and shades: NTR version allows full tone shades, BNC version pastel tones. Both proposals ensure the replicability of Color System tinting system of Renner Italia. They are very resistant and can be polished.

Application	Conventional spray gun	Airless	Air-mix
-------------	------------------------	---------	---------



SURFACE
HARDNESS



CHEMICAL
RESISTANCES



COLOUR
STABILITY



REPLICABILITY



NON-YELLOWING



COVERING
POWER








POLISHING



ACRYLIC COATINGS




HIGH-GLOSS TOPCOAT JB---M671

The best among glossy topcoats. It has a high gloss aesthetic effect. It shows perfect surface hardness, excellent flow and great build. It doesn't turn yellow and can be polished. The base colour remains unaffected if overcoated.

Application	Conventional spray gun	Airless	Air-mix	Curtain coater
				
SURFACE HARDNESS	FLOW	COVERING POWER	POLISHING	NON-YELLOWING

MATT TOPCOAT JO-35M073

Transparent matt acrylic topcoat. Versatile: it is suitable for different types of applications. It doesn't turn yellow and doesn't change colour. It has good chemical-mechanical resistances and a speed drying. It is suitable for application on woods with open pore, since it defines and follows perfectly the pore.

Application	Conventional spray gun	Curtain coater
		
CHEMICAL RESISTANCES	NON-YELLOWING	SPEED DRYING



Via Ronchi Inferiore, 34 - 40061 Minerbio (BO) Italia
T. +39 051 6618 211 F. +39 051 6606 312
www.renneritalia.com - info@renneritalia.com