



COATINGS FOR INNOVATIVE PLASTICS

ENDLESS SOLUTIONS

for the decoration

and protection of plastics

PLASTI:CO coatings are design solutions for plastic materials.

The hi-tech content of these special products is at the service of engineering plastics' industry. Aesthetical and performance features are enriched by endless colours, effects, resistances.

Creativity goes beyond every limit thanks to PLASTI:CO coatings.

Every visual identity finds its own definition.

Suitable for every application method, also for the most sophisticated plants, PLASTI:CO coatings permanently adhere on plastics and are perfectly even and replicable.





COATINGS FOR INNOVATIVE PLASTICS

The technological evolution of plastic materials fulfills the productive needs of many manufacturers through efficiency and convenience. From automotive to medical, from aerospace to electronic field, the industry is increasingly demanding lighter and more performing components in terms of resistance, flexibility and hardness. Thanks to the capacity of resistance to mechanical, thermal, chemical, tribological and corrosive stress, engineering plastics replace metal in various fields. Nowadays a plastic object can weigh up to five times less than the same metal object. By means of injection moulding a unique plastic product can complete the functions previously reached with the help of more components. Nowadays a unique plastic item can integrate important features of many metal components through one cheap, fast and functional manufacturing process.

Therefore, metal replacement is a phenomenon destined to strengthen, thanks also to a research, capable to develop plastic materials more and more respectful of the environment.

Furthermore, there are products defined "green" recycled (post-use), usually known as "second life" or "derived products" from renewable sources.

PLA

polylactic acid

PHA

polyhydroxyalkanoate

PHB

polyhydroxybutyrate

The use of these materials and a targeted coating process combine excellent aesthetics and mechanical results with an eco-friendly production process. In the future the chemistry of these materials will be greener and greener.

PLASTI:CO design coating solutions range is able to combine these developments with a series of metallic coatings with high technological and biological content. Hi-tech products aiming at environmental sustainability.

A collage of modern home appliances. On the left, a black and silver upright vacuum cleaner stands on a light wood floor. In the center, a white front-loading washing machine with a blue door is visible. On top of the washing machine sits a silver stand mixer with a stainless steel bowl and a silver coffee maker. To the right of the washing machine is a silver and black rice cooker with a digital display showing '00:59'. The background is a dark grey wall with a white baseboard.

HOME



APPLIANCES







FURNITURE

AESTHETICS TO SERVICE TECHNOLOGY

The great advantages explain the metal replacement rush. Relative to metals, innovative materials such as PPA polyphthalamide or PARA polyarylamide stand out for

- contraction and improvement of production time
- reduction of costs of raw material, manufacturing and logistics
- improvement of performances and weight saving

However, it is a matter of engineering plastics with evident limits: surfaces have margins of aesthetic improvement.

That's why PLASTI:CO design coating solutions become essential. The aesthetic and tactile result of PLASTI:CO design coating solutions enhances the technological know-how of the plastic material, above all of latest generation.

These coatings are available in shades customized according to the specific need of designer, without gloss limits, in the most famous international colour charts (RAL, NCS, etc.).

Both for indoor and outdoor plastics, PLASTI:CO topcoats improve the resistances to agents of atmospheric, chemical and mechanical degradation and offer a wide range of added values.

Main aesthetic effects

Every colour	Every opacity	Metallic	Pearlescent	Fluorescent
Iridescent/shimmering	Chromium	Mirror	Buffered	Filante
Craquelet	Sponge	Texturized		

Tactile effects

Soft-touch	Silk-effect	Texturized
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Chemical-mechanical performances

Anti-scratch effect	Self-extinguishing/ fire-retardant	Resistance to jumps in temperature	Resistance to cold liquids	Anti-gluing effect
Sanitizing/ antibacterial action	Conductivity	Sound-proof	Electric insulation	



THE RELIABILITY OF RENNER TRADEMARK

PLASTI:CO is a trademark of Renner group, international leader of coatings chemistry for the industry: its strong points are flexibility and customization of its services.

Renner group offers resistant, durable and replicable solutions everywhere thanks to research, production, distribution and assistance centers all over the world.

Our customer assistance helps the manufacturers of plastic materials, analyzing their production needs and capabilities. Then it identifies the best coatings and suggests the most useful solutions for the reference business. It follows the application and verifies that the results are complying with Renner standards and with customer expectations. Above all: it is the connection with the laboratory, activating the creative process of customized products.

Our chemists work in close contact with the most remarkable research institutes; the most qualified coating plants manufacturers; the most accredited architecture and design studios. Try them on exclusive projects for your company.



AU



UTOMOTIVE





SPORT



OUR BIO-BASED COATINGS

Your commitment for the environment

Inside PLASTI:CO range a place of note is taken by bio-based coatings, both water-based and solvent-based.

Renner Italia bio-based coatings are made of

- raw materials from renewable sources
- raw materials non-issued from hydrocarbons
- raw materials from a recycling process of noble materials, otherwise disposed of

In terms of performances these products can be compared to the best standards, but boosted through the most advanced technologies for the environmental preservation.

Bio-based coatings of PLASTI:CO range aim at

- reducing carbon dioxide emissions
- reducing petroleum derivatives
- using raw materials from recycling processes
- increasing indoor air quality
- creating healthier and more liveable places
- reducing natural resources consumption
- eliminating wastes
- developing circular economy systems



THE SUSTAINABLE CHOICE

The aim of the circular economy is to reduce the wastes at the least.

Once the product has achieved his first purpose, its constituent materials are introduced again into the economic circle to generate further value.

Circular economy contrasts with the linear economic model, which is based on this process: to extract - to produce - to use - to throw. In this background, Renner Italia Research and Development laboratory decided to do its part, thanks to the innovative employment of resins, issued from the recycling of plastic polymers materials (e.g. recycled PET plastics).

All Renner products are created in the respect of human being and nature.

Production plants in Minerbio (Bologna) are exclusively fed by energy from renewable sources. PLASTI:CO coatings are made of controlled raw materials, 95% of them are from UE countries.

Renner Italia company, certified ISO 9001 and ISO 14001, selects suppliers on the basis of the industrial model; every participant of the supply chain must adhere to its values. That's why, it pretends that the precious environmental resources are preserved and that every worker is treated with dignity and respect.

**PLASTI:CO coatings are the sustainable choice
for your manufacturing of latest generation
plastic materials**





FIGHTING

SURFACES FOR PLASTI:CO COATINGS

PLASTI:CO solutions have lots of fields of application.

As a matter of fact, the macro sector of plastic objects is divided in numerous segments, testifying how this material is commonly used.

PLASTIC MATERIALS

ABS	Acrylonitrile butadiene styrene
MABS	Methyl methacrylate acrylonitrile butadiene styrene
PA	Polyamide (Nylon)
PA/ABS	Polyamide / Acrylonitrile butadiene styrene
PARA	Polyarylamide
PBT	Polybutylene terephthalate
PC	Polycarbonate
PC/ABS	Polycarbonate / Acrylonitrile butadiene styrene
PE	Polyethylene
PHA	Polyhydroxyalkanoate
PHB	Polyhydroxybutyrate
PLA	Polylactic acid
PMMA	Poly(methyl methacrylate)
POM	Polyoxymethylene
PP	Polypropylene
PPA	Polyphthalamide
PPE	Poly(p-phenylene oxide)
PS	Polystyrene
SAN	Styrene acrylonitrile resin
TPE	Thermoplastic elastomer
TPU	Thermoplastic polyurethane





FIELDS OF APPLICATION

Home appliances

Frames
Faceplates
Handles and pommles
Plinths

Indoor furniture

Furniture and accessories
Inserts for furniture
Doors

Garden furniture

Garden houses and gazebos
Garden furniture elements
Toys
Floor lamps and signage

Lighting engineering

Lamps
Switch plates
Supports

Accessories and small parts

Packagings
Buckles
Buttons
Hangers and coat racks

Sport accessories

Skis and snowboards
Helmets and patches
Glasses
Dive masks and ski goggles
Jackets and boots inserts

Motorcycles

Top box
Fairing
Dashboard
Nose fairing
Mirrors
Mudguard
Passenger handles
Heat insulator and tank
Other components

Industrial vehicles

Components of vans, buses, trucks and machinery

Watercrafts

Furniture and accessories
Inserts for furniture
Doors
Components

Cars

Steering wheel
Glove box
Armrests and headrests
Airbag cover
Steering column cover
Columns
Patches
Switches
Air diffuser and defroster
Handles
Roof racks and mirrors
Bumpers
Radiator grille
Tire covers
Door seals
Door handles
Door mouldings
Windows patch
Hard top
Central pillar
Seals
Various patches
Side band
Plate support
Spoiler



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