

RennerPlast

Coatings for vinyl



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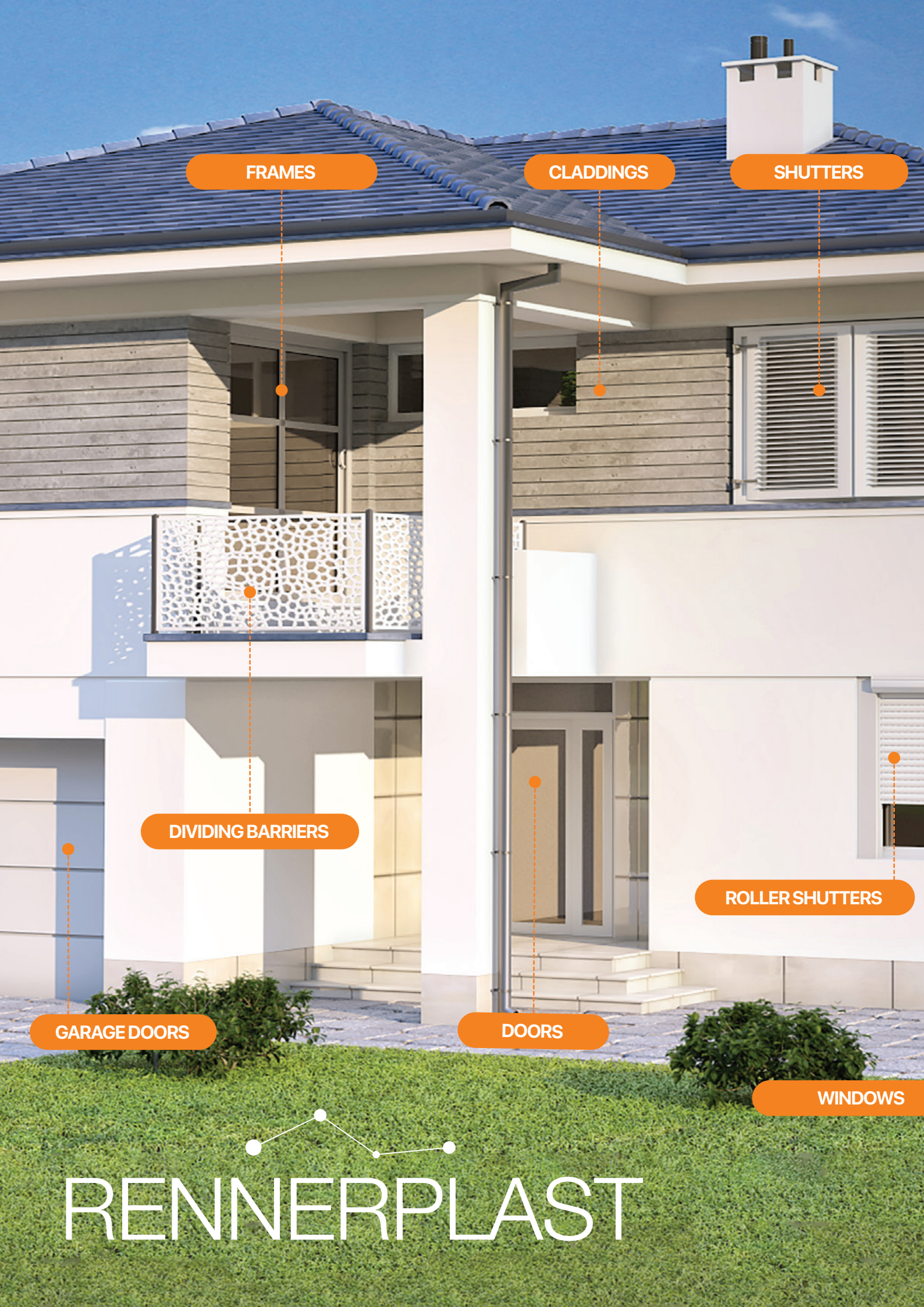
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FRAMES

CLADDINGS

SHUTTERS

DIVIDING BARRIERS

GARAGE DOORS

DOORS

ROLLER SHUTTERS

WINDOWS

RENNERPLAST

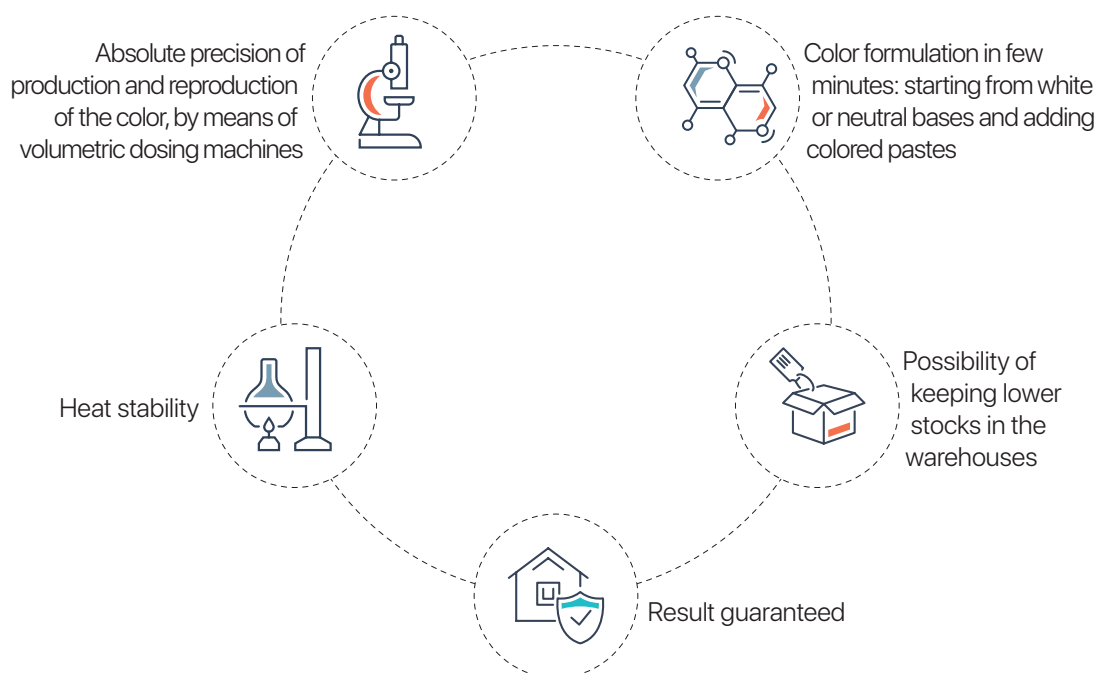
Hi-tech solutions to coat vynil

Vynil is one of the most widespread plastic materials.

Thanks to its versatility, it is used in several fields: from buildings to packaging, from furniture to fashion accessories. One of the areas of greater ferment is the living environment, in terms of production of items, such as windows, frames, roller shutters, verandas, doors, garage doors, claddings, fences and indoor dividing barriers. After many years of research and development, the chemical-mechanical features achieved by vynil technology have become a standard. Water-based RennerPlast coating systems have improved vynil manufacturing to the highest level, guaranteeing high aesthetical performances, able to resist up to 15 years to atmospheric agents.

High-definition color results

Thanks to Renner Italia's Color System, RennerPlast offers many advantages



To facilitate the color preparation, RennerPlast is available in two different versions for each converter:

- **NTR or neutral:** for the preparation of dark colors
- **SBN or white:** for the preparation of light colors

The tinting system can accurately reproduce all shades of RAL, NCS, CS and Chroma color charts, thus offering trendy color solutions which can satisfy every aesthetic need (textures, two-tone colors, special finishes, aluminium effects etc.).



Four instant advantages

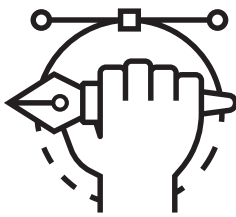
Thanks to their exclusive formula, RennerPlast coatings ensure immediate advantages



Durability

Up to 15 years

Up to 15 years Warranty certifies the extraordinary Renneplast coatings resistance. Protected by RennerPlast products, windows frames, roller shutters, verandas, doors, garage doors, claddings, fences resist to atmospheric agents and pollution, thus reaching unprecedented durability.



Design

Endless colors and effects

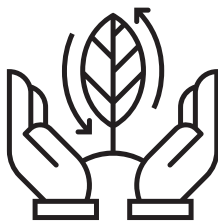
Thanks to RennerPlast range, designers, architects, customers, etc. can set their creativity free, mixing all shades and effects. Pastel colors, metallic tones, matt and semi-matt finishes, textured topcoats, etc. No limits to imagination.



Speed

More efficiency during production

RennerPlast coating system is based on just one product applicable in one single coat: a synonym of speed. Super adhesion and fast drying drastically reduce production times and costs.



Health

Less VOC in the air

RennerPlast water-based coatings respect both nature and people. Our chemists are aware of the important role of the industry in the fight against global warming; they eliminated 95% of solvent emissions. Our water-based coatings ensure very low VOC emissions and do not contain harmful substances to human health and nature. We aim at creating healthier spaces and participating to material and energy savings.



Strengths of RennerPlast coatings

Strengths of Rennerplast coatings



Impact resistance



Chemical-mechanical resistances



Heat resistant formulations



Super elasticity



Heat stability



Ease of application



Application on both horizontal and vertical surfaces



Ease of cleanliness
equipment can be cleaned with water



Ease of use with either small and big batches

Low VOC
environmentally friendly



Low odour



No formaldehyde
and heavy metals
user friendly



Endless solutions
to color



Great durability outdoors



Tested and guaranteed
up to 15 years



Fast drying



Excellent adhesion
to multiple surfaces





Certifications

AAMA 615-17

Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Plastic Profiles

Rennerplast 1k: YO xxM376

7.1	Color uniformity	✓
7.2	Specular Gloss	✓
7.3	Dry film hardness	✓
7.4	Film adhesion	
	Dry adhesion	✓
	Wet adhesion	✓
	Boiling water adhesion	✓
7.5	Impact resistance	✓
7.6	Abrasion resistance	✓
7.7	Chemical resistance	
7.7.1	Muratic acid (HCl) resistance	✓
7.7.2	Mortar resistance	✓
7.7.3	Nitric acid (HNO ₃) resistance	✓
7.7.4	Detergent resistance	✓
7.8	Humidity resistance	✓
7.10	Heat shock resistance	✓
7.11	Stability to high temperatures and humidity	✓
7.12	Heat build-up	✓

Qualité Batiment QB 33

Coated PVC Profiles - Coating Products - Lacquers

Rennerplast 2K: YO xxM977 - YO xxM979

1.3.1	Thickness of dry coating film	✓
1.3.2	Polymerisation of the coating (Resistance to MEK)	✓
1.3.3	Pencil hardness	✓
1.3.4	Mortar resistance	✓
1.3.5	Impact resistance	✓
1.3.6	Grid adhesion	✓
1.4.1	Artificial aging (xenon lamp)	
	Base colors (3000 h)*	✓
	Secondary colors (1500 h)**	✓
1.4.2	Heat shock resistance	✓

Quality Assurance RAL-GZ 716

Quality and Test Requirements for window profiles made from PVC-U:
Technical Appendix 4.5 "Section I", part 5:
Coated profiles

Rennerplast 1k: YO xxM377

Rennerplast 2k: YO xxM977

2.2.14.1	Fastness after artificial weathering	
	Climate zone M (8 GJ/m ²)	
	Visual evaluation	✓
	Colorimetric evaluation	✓
	Climate zone S (12 GJ/m ²)	
	Visual evaluation	✓
	Colorimetric evaluation	✓
2.2.14.2	Resistance to weathering after artificial weathering	
	Climate zone M (8 GJ/m ²)	
	Charpy Impact	✓
	Adhesion	✓
	Climate zone S (12 GJ/m ²)	
	Charpy Impact	✓
	Adhesion	✓
part IIa3	Heat build-up	✓

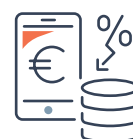
***Base colors:** group 1: mineral pigments (e.g. RAL 1013); group 2: mineral and organic pigments (e.g. RAL 7016); group 3: organic pigments (e.g. RAL 3005); group 4: metallic pigments (e.g. RAL 9006)

****Secondary colors:** group 5: medium (e.g. RAL 7005); group 6: bright (e.g. RAL 1015); group 7: dark (e.g. RAL 8019); group 8: blue (e.g. RAL 5015); group 9: orange - yellow (e.g. RAL 2010); group 11: green (e.g. RAL 6017)



Why to choose coating instead of film

COATING	FILM
Lighter warehouse	Big stockpiles in warehouse, with risk of expiry
Small production batches	Wastes of material in small batches
Even covering of all the surface	Partial covering of the object
Ultra-fast corrections	Time consuming corrections
Lower average costs	Higher average costs







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