



protaral[®]
INTERIOR COATING FOR ALUMINIUM PACKAGING BY WEILBURGER

Protaral®

Interior coating for aluminium packaging, essential for protecting the quality of the products and preventing damage to the material with which they come in contact.

The high-quality, reliable, and globally available Protaral® interior coatings have driven their success, especially in industries like pharmaceuticals, cosmetics, and food, where superior product appearance is crucial.

The four Protaral® lines:

Protaral® Classic for aluminium collapsible tubes

Lacquers for the internal protection of aluminium collapsible tubes **based on epoxy-phenol resins**. Protaral® Classic interior coatings, available in different versions, either clear or pigmented, with medium to high solids content, are ideal for use with a wide variety of products, such as: foodstuffs, glues, hair dyes, depilatories, chemicals, pharmaceuticals and toothpaste.

Protaral® Monobloc for monobloc aerosol cans

Epoxy-phenol lacquers for the internal protection of aluminium monobloc aerosol cans. **Great flexibility and very good adhesion make these products suitable for mechanical forming (necking) of aerosol cans with a diameter of up to 74 mm.** Protaral® Monobloc interior coatings, available in different versions, either clear or pigmented, are suitable for a wide range of applications: from pharmaceuticals & cosmetics to food.

Protaral® BPA NI coatings for collapsible tubes and monobloc aerosol cans

Polyester internal lining. Available in two versions, for food contact and for cosmetics ammonia resistant. The most innovative coating produced by Weilburger research laboratories. Protaral® BPA-NI is the first item in a new line of specific polyester interior linings for aluminium packaging.

Protaral® COIL coatings for aluminium food containers

Epoxy and BPA NI polyester lacquers for high internal protection. Various colours are also available for the creation of decorative motifs.

All Protaral® products **comply with FDA 175-300, CE 10/2011** and its amendments concerning materials intended for food contact use.

Special formulations for food contact applications

Protaral® coatings have been formulated to protect the packaging as well as the foodstuffs and consumers. For this reason, in addition to complying with **international food contact regulations** (FDA 175.300, and CE 10/2011 and its amendments) Protaral® lacquers are continually submitted to stringent essential tests to certify their safety.

An important characteristic of the special formulations for the food industry is **very good resistance to acidity** which makes Protaral® interior coatings suitable for tomato sauce and other strongly acidic foods.



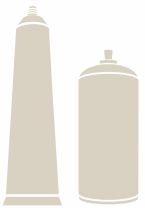
		Color	Polymer/Resistance	Application	Suitable for
	Protaral® Monobloc 905.263	Clear gold (BPA not detectable)	Very high resistance to acidic filling products.	Very high flexibility. Very easy spraying also by means of old spraying lines. Yields a very even dry film thickness also on broad surfaces.	Suitable for big gauge aerosol cans. Especially developed and optimized for whipped cream.
	Protaral® Classic 905.269	Clear gold	Epoxy phenolic Very high resistance to acidic filling products (tomato)..	High solids content. Very easy to spray with all kind of spraying machines. Very good behaviour on old production plants and lines having dirt build-up problems.	Suitable for all tube gauges. Standard uses (wide application latitude, very good average performances).
	Protaral® Classic 905.267	Clear gold	Epoxy phenolic Very high resistance to acidic filling products (tomato)..	Low overspray (avoids issues related to overspray build-up and subsequent external over-coating problems with water based enamels). High solids content.	Particularly suitable for fast pace production lines. Standard uses (wide application latitude, very good average performances).
	Protaral® BPA NI 910.579	Clear gold	Very high resistance to acidic filling products.	High solids content. Tested and approved both for collapsible tubes and aerosol cans.	Standard uses (wide application latitude, very good average performances). Suitable for “food contact”. Not suitable for alkaline products (hair dyes).
	Protaral® Coil	Clear white & Pigmented	Epoxy based		

Protects the packaging
but above all it **protects the food.**
Odourless, clear, resistant to acids. **Safe.**

Special formulations for cosmetics

Aluminium packaging is extensively used in the cosmetics industry for products like hair lacquers (monobloc aerosol cans), hair dyes, and toothpaste (collapsible tubes). Specialized formulations are tailored to ensure resistance against ammonia, mono- and tri-ethanolamine, and highly alkaline or acidic contents.

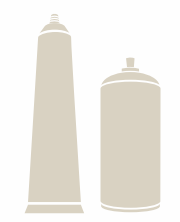
Various formulations are available to meet the requirements of a **wide range of products:** from creams to hair dyes and toothpaste.



	Color	Polymer/Resistance	Application	Suitable for
Protaral® Classic 905.269	Clear gold	Epoxy phenolic Very high resistance to acidic filling products.	High solids content. Very easy to spray with all kind of spraying machines. Very good behaviour on old production plants and lines having dirt build-up problems.	Suitable for all tube gauges. Standard uses (wide application latitude, very good average performances).
Protaral® Classic 905.267	Clear gold	Epoxy phenolic Very high resistance to acidic filling products.	Low overspray (avoids issues related to overspray build-up and subsequent external over-coating problems with water based enamels). High solids content.	Particularly suitable for fast pace production lines. Standard uses (wide application latitude, very good average performances).
Protaral® Classic 908.073	Clear gold	Epoxy phenolic Especially formulated for toothpastes and ammonia resistant.	Specifically for toothpastes	Standard (wide application latitude, very good average performances). Specially formulated for toothpastes.
Protaral® Classic 907.717	Pigmented	Epoxy phenolic amino modified Excellent ammonia resistance.	Performs very well also on older production lines. High viscosity. Medium solids content. High solids content.	Strong hair dyes. Standard uses (wide application latitude, very good average performances). Similar performances as 908.073 but with even better ammonia resistance.
Protaral® BPA NI AMMONIA RESISTANT 910.433	Clear gold	Epoxy phenolic General purpose. High resistance to acidic and good resistance to alkaline products.	High solids content. Suitable for alkaline products (hair dyes). Fulfils ammonia L'Oreal test.	Strong hair dyes. Standard uses (wide application latitude, very good average performances).
Protaral® 905.288	Pigmented	Very high resistance to alkaline filling products.	Good flexibility. Suitable for methylene chloride containing products.	Suitable for all standard aerosol cans.
Protaral® 905.073	Clear gold	Epoxy phenolic Ammonia and alkaline filling substances resistance (hair dyes).	High solids content. Avoids issues related to overspray build-up and subsequent external over-coating problems with water based enamels. Particularly suitable for fast pace production lines.	Standard (wide application latitude, very good average performances).

Special formulations for pharmaceuticals

In the field of interior coatings for pharmaceutical packaging, Protaral® makes maximum use of its **flexibility** and innovative capacity to develop **special formulations for specific materials defined by the manufacturer** in accordance with the regulations and high standards required by a highly demanding sector.



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The **Protaral®** research department tests specific formulations which are under continuous development to ensure they meet the stringent standards required by the pharmaceutical industry.

Research & Development

Protaral® is a continuously developing product: tests and research are carried out every day on new applications to offer **safe, reliable and innovative solutions** with full respect for the environment and people.

Ongoing research and development efforts have led to the creation of Protaral® Hydro, a line of water-based interior coatings for aluminium packaging that has shown excellent performance in resistance, flexibility, and durability tests. Research is also underway on a new bisphenol-free product with promising results.



Hydro – water-based lacquers

Protaral® Hydro, a water-based interior coating, was developed in keeping with our mission to offer **safe, reliable and innovative solutions** whilst fully respecting the environment and people.



Aluminium Foil Coatings

Heat sealing laquers for internal protection for lids.



Very low VOC emissions

Thanks to ongoing research on product improvement, emissions of volatile organic compounds from Protaral® coatings are well below the allowable limits laid down by European directives, thus further proving the company's commitment to the environment and people.



Packaging 100% recyclable

The aim of an ever growing number of companies is to reduce the environmental impact of its products. Aluminium is a 100% recyclable material. To choose aluminium packaging is to make a choice that favours the environment.

Weilburger Coatings

Protaral® is a registered WEILBURGER trademark. WEILBURGER Coatings, a member company of the KANSAI HELIOS Group, operates successfully in the field of industrial coatings and lacquers with the aim of adding value to industrial products of widely differing sectors from metal to plastic, paper and rubber. The markets where we now invest are: **Eyewear, Cookware, Ultra High Temperature, Packaging, Small Items & Zippers, Railway, Special Industry.**

KANSAI HELIOS Group

KANSAI HELIOS is part of **KANSAI PAINT**, one of the world's leading paint and coatings producers that serve a global customer base with manufacturing, distribution and sales activities worldwide. Contributing to customers and society through sustainably leveraging a superior technology with innovative products and services, and a competent workforce, built on the foundations of customer focus, integrity and respect to all stakeholders is the mission of KANSAI PAINT.



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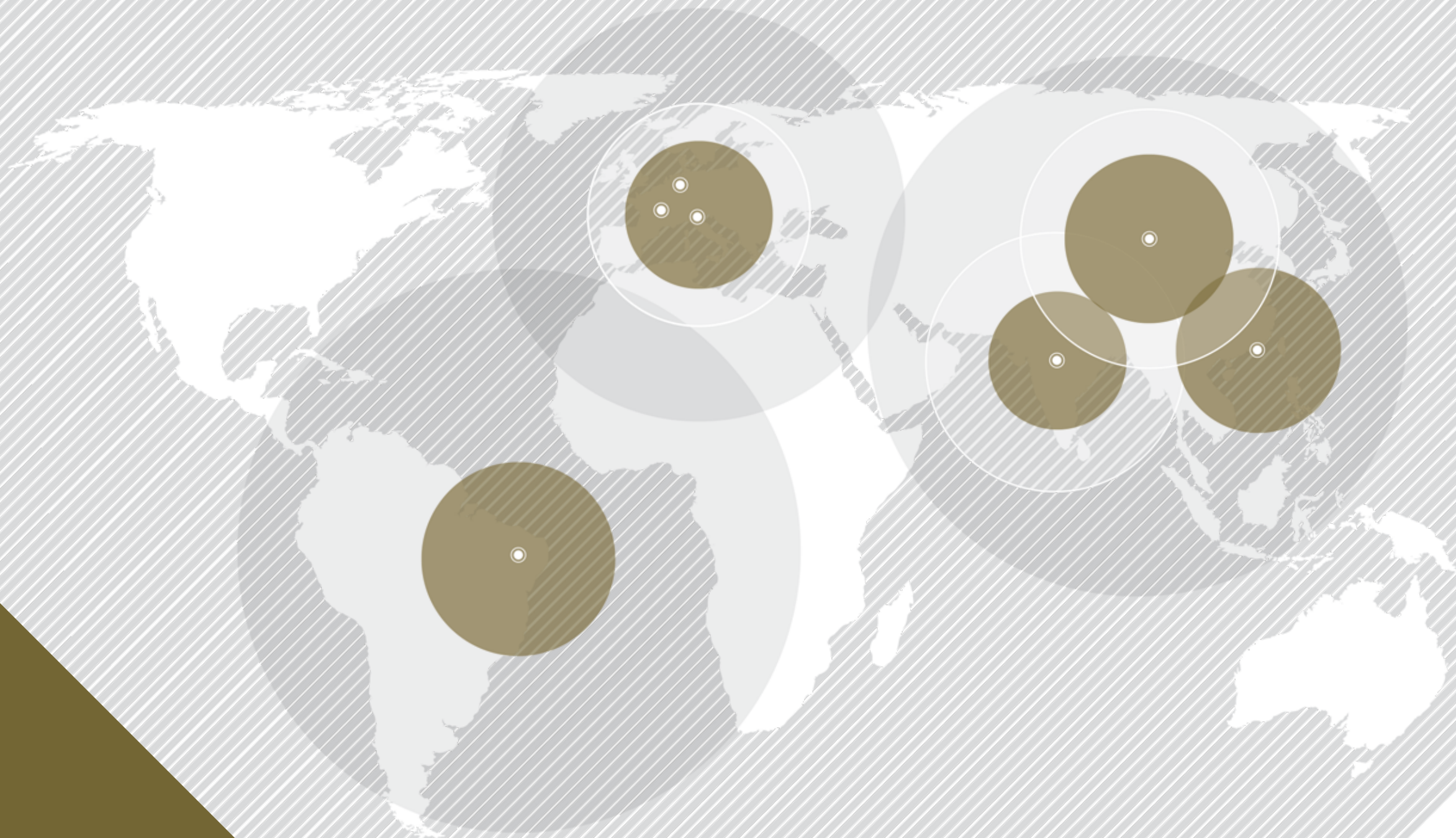
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