



15  
YEARS  
2000-2015

**RIPOL**  
the Power of Colour

About us

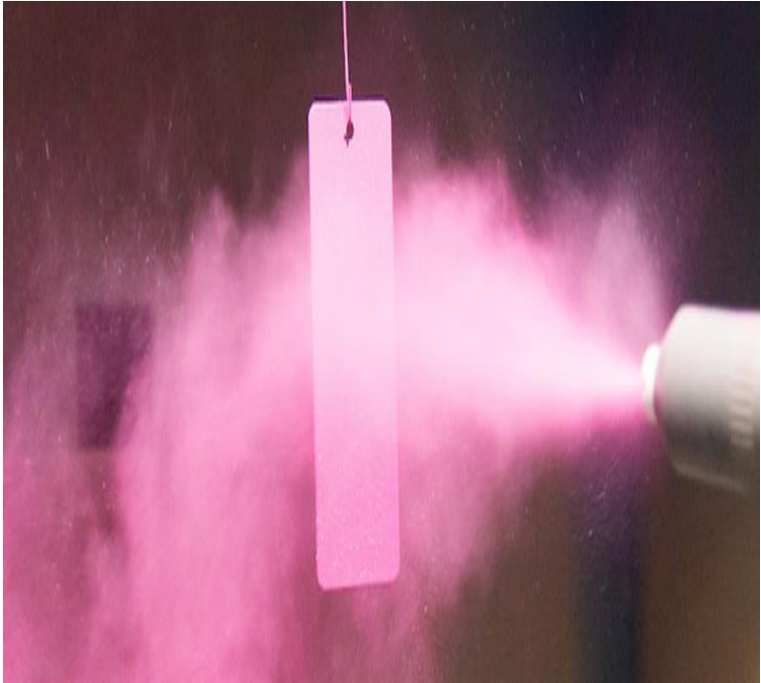
Applications/Markets

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***Powder coating solutions***



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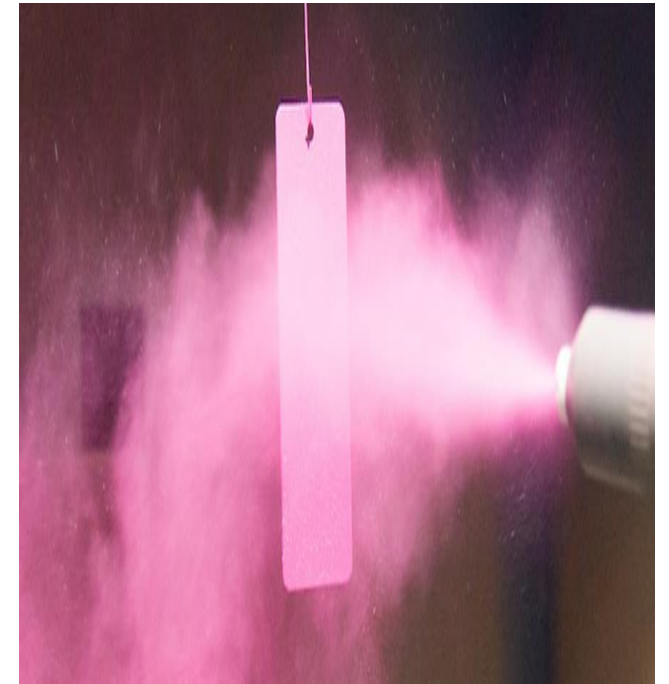
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## *Applications / Markets*



- Architecture
- Automotive
- General industry
- ACE - Off Road
- Electrical & Lighting
- Household Appliances
- Furniture & Design
- Glass & Ceramic
- Anticorrosion
- Functional
- Specialities





Architecture

Automotive

General industry

ACE - Off Road

Electrical & Lighting

Household Appliances

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## Architecture

RIPOL offers a complete range of architectural powder coating systems based on durable and super durable polyester resins. These products are formulated especially for aluminum, steel and galvanized steel applications. They have excellent mechanical, weathering resistance properties and durability to withstand outdoor environment conditions.

The range includes a variety of finishes and effects and are marketed under the trade name **RIPOL Series 5**. They are designed to meet **QUALICOAT** and **GSB** specifications to ensure excellent performance and color consistency.

Can also be used for the protection and decoration of indoor

### Series 59L HWF Façade Polyester

Highly weather-resistant Polyester systems

Weathering Class 2 / GSB Master

### Series 5 PEA Classic Façade Polyester

Weather-resistant Polyester systems

Weathering Class 1 / Qualicoat Class 1 / GSB Standard

### Series 5 SUBLIMA SBCR

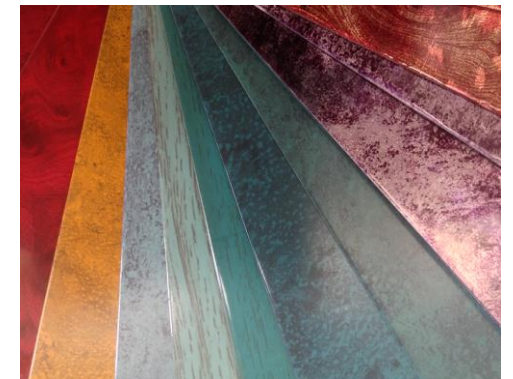
Powder Coating Systems for the Dye Sublimation Technology

- Aluminum profiles,
- Window Frames,
- Doors and Facades
- Garden Furniture, Verandas
- Sun Shades and Shutters

- Steel or galvanized steel for cladding
- Balustrades and Hand Rails
- Garage Doors
- Fencing and Railings
- Ceiling Tiles



Series 59  
HWF





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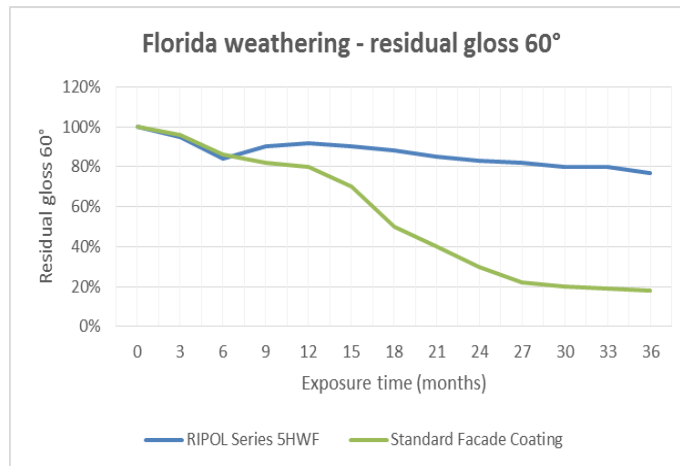
## Architecture

### Series 59L HWF Façade Polyester

Highly weather-resistant Polyester powder coating systems for facades.

RIPOL Series 59L series is particularly suited to severe UV exposure conditions in accordance with the inspection and quality guidelines as per GSB Master and Qualicoat Class 2 corresponding to three-year Florida outdoor exposure. RIPOL Series 59L offers significantly higher gloss retention and resistance to color change combined with maximum film integrity and outstanding mechanical properties to ensure long-term aesthetic and functional protection. For higher requirements in corrosion protection on steel bases, the application of Double Layer system is recommended with the same weathering capabilities and consisting of suitable RIPOL Primers and RIPOL Series 59L.

**Weathering Class 2 / GSB Master**



- **Very High weathering resistance/protection**
- **Easy application**
- **Good surface flow**
- **Excellent coverage and chargeability**
- **Minimal picture frame effect**
- **High recycling rates**
- **No toxic contents**
- **TGIC-free - heavy metals free**
- **Environment-friendly production**
- **Good storage stability**

# Series 59 HWF



### Architecture

### Automotive

### General industry

### ACE - Off Road

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### Furniture & Design

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## Architecture

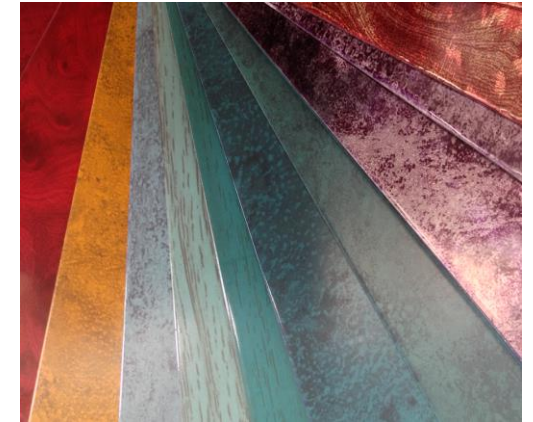
### Series 5 Sublima SBCR - Heat Transfer

#### Powder Coating Systems for the Dye Sublimation Technology

The process of transferring three-dimensional images onto parts and products, known as dye sublimation, has been successfully applied to powder coated products.

**RIPOL SUBLIMA** powder coatings are specially formulated to accept ink via the sublimation process without issues relating to paper sticking to the surface of the coating. Endless effects and patterns such as wood grain, marble, granite, custom designs or photographic pictures can be transferred onto **RIPOL SUBLIMA** powder coated surfaces. The powders work with film from all the major suppliers. Film is available in hundreds of patterns.

- **Easy application**
- **provides excellent edge coverage on conventional and multi-faceted pieces**
- **Consistent quality across and between different parts**
- **Good surface flow**
- **No toxic contents –TGIC-free; heavy metals free**
- **Environment-friendly – no solvents emission**
- **Good storage stability**



**sublima**





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## Solutions for Automotive & Construction Vehicles

To meet industry's high demands for function and design, high-performance coating systems are available for parts and components used throughout the automotive industry. We consistently tailor our products to the needs and requirements of our customers. We can formulate coating systems for commercial vehicles, buses, and trains offering excellent protection as well as high color accuracy and gloss stability.

RIPOL powder coatings are also used for interiors and to coat special parts under extreme wear and tear.

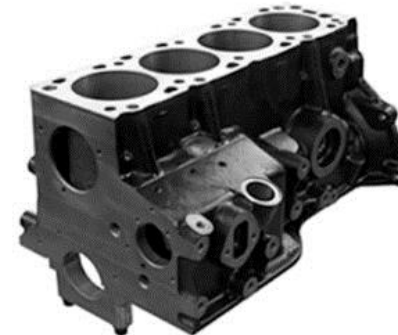
### Car Wheels

Includes a range of primers and coating systems for aluminum wheels. Products are fine-tuned for different application conditions to provide the best possible basis for subsequent coatings. This portfolio offers a complete set of products tailor-made for the Aftermarket industry.

- **Construction Equipment Trailers**
- **Automotive components**
- **Bus manufacturers**
- **Heavy duty truck industry**
- **Rail industry**

### Functional Automotive

Developed for extreme resistance to chemicals and corrosion .This line provides outstanding resistance to aggressive agents, as is used for brakes, engine blocks, steel springs and other under the hood components.





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### General Industry

RIPOL provides a broad range of efficient, economical and environmental friendly powder coating solutions for **General Industrial Applications**. They are designed for both indoor and outdoor applications and offer good mechanical properties, good anticorrosion protection, excellent coverage and a wide selection of colors and textures.

- Industrial & warehouse shelving systems
- Radiators
- Air conditioning
- Machine parts

- Fences and railings
- Rail Traffic
- Heavy road traffic

**RIPOL PF Series**  
Polyester Systems for Coil Coating  
& Post Forming Technology



### Specialities

- Scratch resistant
- Anti Bacterial properties
- Out-gassing properties
- Thin-film coatings





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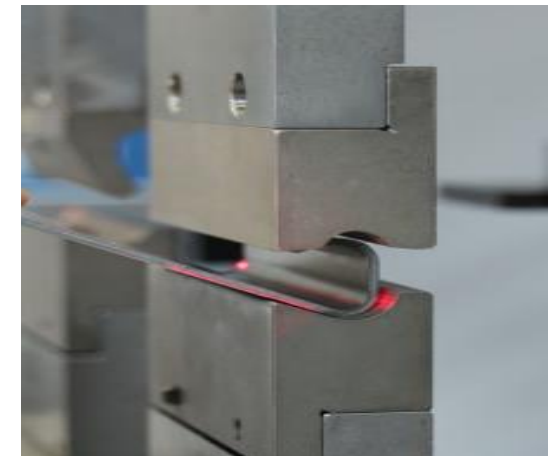
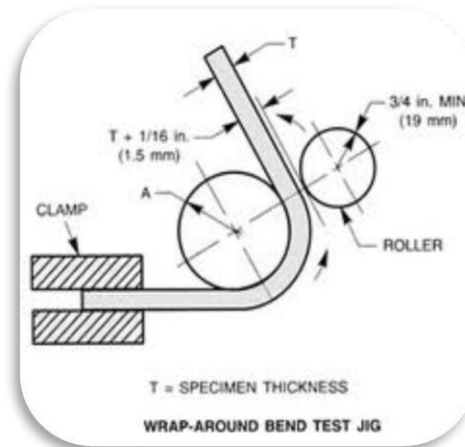
## RIPOL PF Series

### Polyester Systems for Coil Coating & Post Forming Technology

RIPOL PF Series includes high performance, powder paint systems with enhanced reactivity, specifically designed for the Powder Coil technology and for Post-Forming after powder coating. PF Series is designed for exterior applications. It combines excellent hardness and performance characteristics while retaining formability. Applications include appliances, furniture and perforated or embossed metal.



**Post-Forming**  
Technology







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## ACE - Agricultural, Construction and Earth moving equipment Lawn and Garden

With the **ACE Series** RIPOL provides powder coating systems that meet the industrial corrosion resistance standards of the ACE sector. They are based on **durable Polyester-based systems** which guarantee successful performances, even in challenging conditions. The manufacturing process involves a tight color and gloss control procedure and the products are formulated to meet the highly demanding mechanical requirements (adhesion, hardness, flexibility, impact resistance) and to provide excellent edge protection. They also offer good resistance to the most common chemical agents used in this specific market. A wide range of parts made of different substrates such as aluminum, steel and galvanized steel are used in this sector.

For steel parts, a **RIPOL "double-coat"** system is recommended (the system comprises a corrosion-protecting powder primer and a **RIPOL ACE Series** polyester finish coat).

**RIPOL ACE Series** consists of two topcoat performance classes : **Series 59L** and **Series 69L** . You can also choose from different levels of durability to find the perfect match for your ACE component or part.



- Tractors,
- Combine harvesters,
- Ploughs,
- Crane and excavators
- Forklifts,
- Trailers,
- Trucks,
- Off-road equipment and machinery



**CONSTRUCTION  
EQUIPMENT.**

**Farm  
Equipment**



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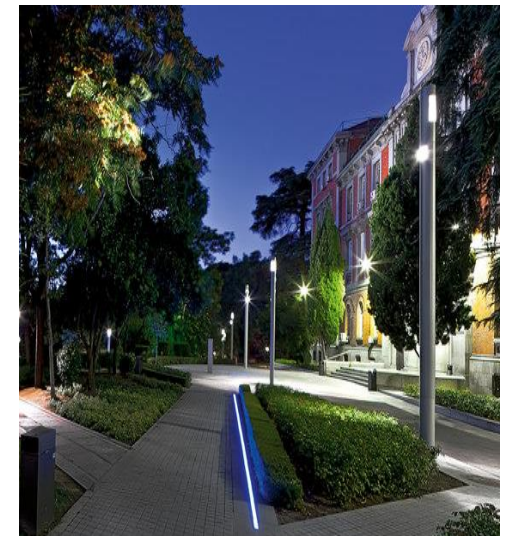
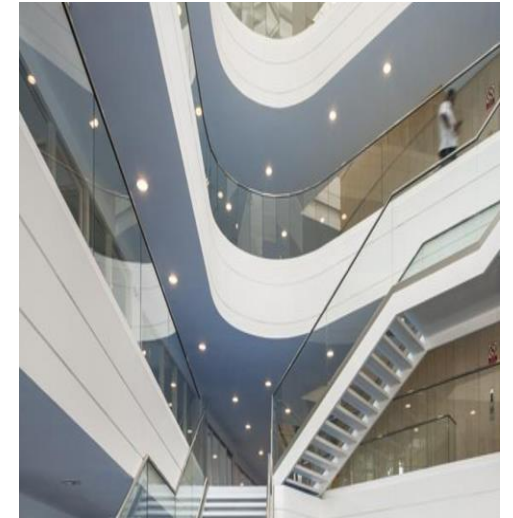
## Electrical & Lighting Industry

RIPOL offers tailor-made powder coating solutions for the electrical & lighting industry.

Polyester or epoxy-polyester-based powder coating systems are available depending on whether component is to be used for interior or exterior application.

For the Lighting industry RIPOL offers products specifically designed to meet the complex requirements of this sector (durability, corrosion protection, yellowing resistance, and superior design).

- Interior lighting systems
- Urban lighting systems
- Electrical control panels,
- Transformers





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### Household appliances industry

The standards for the aesthetic quality of the finishes along with the demand for various colors and special effects are continuously increasing in the appliances sector.

RIPOL can develop tailor-made powder coating finishes that combine aesthetics with durability. RIPOL Series 1 includes standard and special effect finishes that meet the latest trends in design, décor, and colors.

The products are available in a wide array of standard and custom-colors.



- Refrigerators,
- Washing machines
- Dishwashers
- Microwave ovens
- Air conditioning
- Ironing boards



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### Furniture & Design

RIPOL offers a selection of powder coatings systems for exterior and interior applications. The product range includes high-gloss, semi-gloss and matt coatings with various textures such as coarse structured, fine textured, hammered finishes, marble-like coatings, metallic, etc. New versions are constantly being developed to ensure a maximum of design freedom in the furniture segment. The products designed for this industry show outstanding mechanical properties and excellent edge coverage in order to reduce the danger of corrosion.

- Office & School Furniture
- Kitchen & Bathroom Furniture
- Garden Furniture
- Urban and public Furniture

RIPOL can develop tailor-made powder coating finishes formulated with an outgassing forgiving agent in order to coat cast parts and hot galvanized steel , which according to the surface characteristics tend to outgas during the curing process.



Office Furniture



home furnishings





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### Glass & Ceramics

RIPOL has expanded its application to non-metal substrate.

**RIPOL Vitrum Series** is designed to coat different glass materials. This powder-coated glass can be used for bathroom, kitchen, bedroom and office structures.

**RIPOL Ceramic Series** is designed to coat different pottery/ceramic materials.

Tested to be more consistent than wet paint and more flexible than pre-colored and tinted glasses, customers can freely choose from a variety of colors and finishes available.



## Vitrum

## ceramic

- beverage bottles
  - candleholders
  - various glass decors
  - white board
- 
- roof tiles
  - flowers pots
  - home decorative ceramics
  - garden ceramic decors



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## Anticorrosion Powder Coating Systems

Corrosion of steel leads to significant high maintenance costs. Adequate surface pretreatment and the use of the most appropriate anticorrosion system on the substrate to be coated will extend the life of the painted structure. RIPOL offers a range of products to provide superior Anticorrosion Solutions for every substrate to be coated.

### Single-coat system for galvanized steel

High performance durable Polyester-based single-coat system optimized for this substrate.

### Double-coat systems for steel structures to be exposed outside

These systems combine an efficient chemical or mechanical pretreatment of the substrate, a suitable powder primer and a Polyester-based powder coating finish in order to achieve a higher level of corrosion protection.

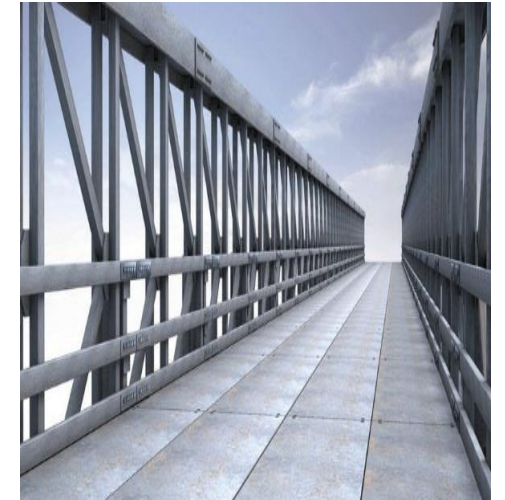
RIPOL uses internationally recognized testing methods to ensure the powder coatings comply with standards for weather-resistance and mechanical properties.

- Zinc Rich
- Zinc-free
- Universal Filler
- Shop Primer
- Primer GS for galvanized structures
- Primer ALU for aluminum surfaces

[SEE MORE](#)

**ZINC**  
**RICH**

**ZINC**  
**FREE**





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### Functional Powder Coatings

RIPOL provides powder coating systems developed to meet specific functional requirements in specific environments such as:

- Gas tanks
- Reservoirs
- Valves and Fittings
- Tubes
- REBAR
- Pipelines

The highest standards are required for anticorrosion protection and chemical aggression.

#### Series 2 FBE - Fusion Bonded Epoxy systems

Fusion Bonded epoxy thermosetting coatings specially developed to protect pipelines, tubes and concrete reinforcing bars (REBAR), valves and fittings, storage tanks and electrical insulation.

#### Series 2 EPX Xtra Wall - Epoxy High Thickness Primer

Series 2 EXP Xtra Wall are applied onto preheated steel components to ensure optimal adhesion and outstanding cathodic disbonding resistance. Exceptionally tough high build film with thickness > 600 µ on pre-heated surfaces. No drips, no runs. Excellent corrosion resistance.



# FBE

## Fusion Bonded





the Power of Colour

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SPECIALTIES







### Specialties

**Energy-efficient**

**Antimicrobial**

**Outgassing**

**Thin-film coatings**

**Conductive/ ESD**

**Scratch resistance**

**Vacuum Metalizing**

**Epoxy-Phenolic**

## Energy-efficient coatings

### RIPOL BT Series - Low Temperature Curing powder coating for Industrial applications

RIPOL BT includes a range of products specifically engineered to meet demands of today's Original Equipment Manufacturer (OEM) market for a powder coating that cures faster and/or at low temperatures, driving an increase in productivity, a reduction in energy costs and the ability to coat more heat sensitive objects.

They are easy to use and offer a good quality finish, providing excellent coverage.

- **Lower temperature, higher energy savings**
- **Better productivity, lower production cost**
- **Taking on heat sensitive materials**



**RIPOL BT** includes products which can cure at temperatures as low as

**140°C/20min,  
150°C/15min,  
160°C/10min.**





**Specialties**

**Energy-efficient**

**Antimicrobial**

**Outgassing**

**Thin-film coatings**

**Conductive/ ESD**

**Scratch resistance**

**Vacuum Metalizing**

**Epoxy-Phenolic**

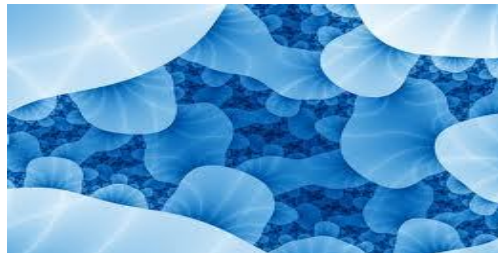
## Antimicrobial powder coatings - Series BACTERI Ag

RIPOL Bacteri Ag antimicrobial powder coatings are used to provide protection against the growth of microorganisms in a wide range of applications.

They incorporate environmentally sustainable antimicrobial additives capable to release silver ions by way of an ion exchange mechanism. Silver is known to be a safe material for human contact and highly effective to inhibit the growth of a broad spectrum of micro-organisms and has many benefits over alcohol, chlorine, or ammonium-based antimicrobials.

Sustained effectiveness of these additives has been certified by an independent, approved testing institute. Antimicrobial coatings possess temperature stability and excellent color retention.

They are also durable and capable of providing maximum protection over an extended period of time. RIPOL Bacteri Ag antimicrobial powder coatings are available in all resin chemistries.



**Specialties****Energy-efficient****Antimicrobial****Outgassing****Thin-film coatings****Conductive/ ESD****Scratch resistance****Vacuum Metalizing****Epoxy-Phenolic****Outgassing Friendly  
Low Cure**

Fisheyes, bubbles, and small holes are caused by outgassing: the release of gasses from the zinc-coated metal as the part is baked in the powder coating process.

RIPOL offers you products which permit outgassing from the porous zinc surface before cross-linking and thus lead to a smoother surface. The formula provides for longer cure times and lower temperatures, allowing the gas to penetrate the coating while it is still in a gel form. This results in a reduction in the number of fisheyes in the cured powder coating.

Tempering of the coating components is recommended in the case of extreme applications. Tempering involves heating of metal components prior to coating in order to release gases. The selected temperature level should be above the actual curing temperature of the powder coating.

**Properties**

- Outgassing inhibitive formulations
- Low cure

***Typical applications***

- Hot-dip galvanized workpieces
- Cast parts
- Base steel alloys



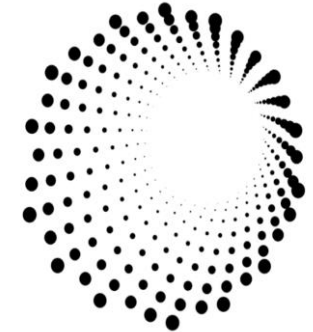
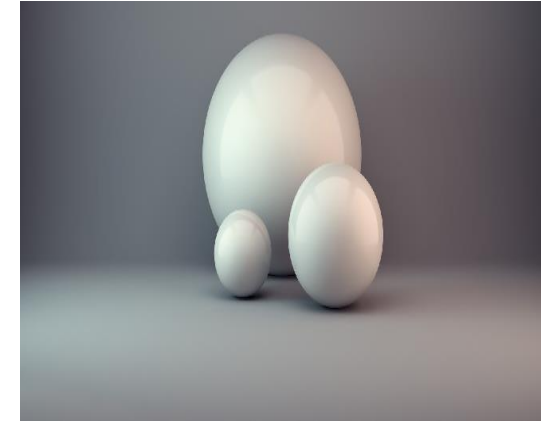
## RIPOL Series GC Controlled & Selected Particle Size Distribution PSD

The quality of powder coatings is influenced by many factors. One of the most important is particle size distribution (PSD).

High product quality requires a narrow particle size distribution with a sharp and well-defined top cut and a low amount of fine particles.

RIPOL Series GC includes a range of powder coatings where the most advanced formulation and manufacturing technologies are combined.

These products are manufactured with a special process which enables to control and select Particle Size Distribution in order to offer better and consistent appearance and color standards with optimal operational efficiency in terms of uniform powder utilization over a broad range of traditional application thicknesses.



### Specialties

**Energy-efficient**

**Antimicrobial**

**Outgassing**

**Thin-film coatings**

**Conductive/ ESD**

**Scratch resistance**

**Vacuum Metalizing**

**Epoxy-Phenolic**





Specialties

Energy-efficient

Antimicrobial

Outgassing

Thin-film coatings

Conductive/ ESD

Scratch resistance

Vacuum Metalizing

Epoxy-Phenolic

### Conductive/ ESD powder coatings with discharging properties

RIPOL ESD Series includes a range of powder coatings specifically designed to meet requirements where sensitive electronic equipment must be protected from ESD (Electrostatic Discharge ) due to static build-up. The coating acts as a protective film that dissipates static charge occurring onto the surface. With RIPOL ESD coatings valuable electronic components are kept safe in use or in storage. RIPOL ESD coatings in this area of application have a surface electrical resistance of 10<sup>5</sup> – 10<sup>9</sup> Ω at a film thickness of 70 – 90 μm (increasing the film thickness will improve the electrical resistance accordingly). RIPOL ESD powder coatings are suitable for applications such as electronic enclosures, computer work stations, work benches and work surfaces, shelving, storage organizers, and more. RIPOL ESD powder coatings are ideal to coat components which have to comply with the ATEX Regulations.

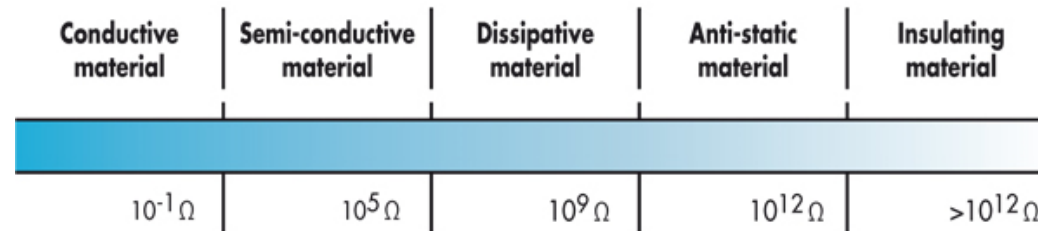


# ESD

## 19LN1F95220

### BLACK Conductive/ ESD powder coatings

Series  
Electrostatic  
Discharge



ESD Protective



**Specialties**

**Energy-efficient**

**Antimicrobial**

**Outgassing**

**Thin-film coatings**

**Conductive/ ESD**

**Scratch resistance**

**Vacuum Metalizing**

**Epoxy-Phenolic**

## Series AG

### Powder Coatings with Scratch Resistance properties

RIPOL Series AG includes a range of powder coatings specifically designed to deliver added value in terms of durable, scratch resistance - e.g. less prone to drag-marks, reduced dirt- and handling-related scratch, etc.

With a RIPOL AG formulation, the scratch resistance can be improved significantly over that of a conventional hybrid-EP - based powder coating, and with no additional wear-and-tear on the powder application equipment

*Abrasion resistance is the durability of a coating at profound abrasive stress such as laminar forces. Abrasion resistance is different to scratch resistance which is a single point pressure impact combined with a movement. Typically scratches are caused by tips of a hard material, e.g. a needle or other sharp edged objects. Scratch resistant powder coatings are not necessarily equally good in terms of abrasion resistance.*

**Scratch  
Resistant**



**Specialties**

**Energy-efficient**

**Antimicrobial**

**Outgassing**

**Thin-film coatings**

**Conductive/ ESD**

**Scratch resistance**

**Vacuum Metalizing**

**Epoxy-Phenolic**

## Vacuum Metalizing

is the process of evaporating metals (most commonly aluminum) inside a vacuum chamber to achieve a thin uniform metalized layer. Thermal evaporation otherwise known, as vacuum metalizing, is the most common PVD (Physical Vapor Deposition) process used to apply metal alloys under vacuum.

With **Vacuum Metallizing** coating process extremely thin layers of metal are applied to an object in a high vacuum environment. This process allows the metal layers to exactly copy the shape and contour of the applied object. Vacuum metalizing has many uses including; EMI/RFI shielding, decorative metallic and chrome like finishes, highly reflective coatings, heat shielding, vapor barriers, and many more.

RIPOL developed specific basecoats to be used in Vacuum Metallizing applications.

**RIPOL CLEAR BASECOAT** can fill in grain hiding minor irregularities in part surfaces.

With these products you can produces coatings having greater film thickness than other methods. You can achieve a thick, glossy coating.



# Vacuum

**28LT3D39812**

**Epoxy-Phenolic  
Clear Coat Primer**

**19LT3A71312**

**Hybrid EP  
Clear Coat Primer**



### Epoxy-Phenolic Liner 28LV1D29812

Epoxy-Phenolic Clear Coat Liner  
developed for the coating of Boilers  
Chambers

- Specialties
- Energy-efficient
- Antimicrobial
- Outgassing
- Thin-film coatings
- Conductive/ ESD
- Scratch resistance
- Vacuum Metalizing
- Epoxy-Phenolic



100 h resistance  
Hot Water @ 90°C  
Immersion Test

hotwater



Low Curing BT  
@160/170°C







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# Our products



## Families



**Series 5 PEA  
Polyester Facade**

**Fassaden  
Decorative  
Finishes**

**Series 6 PEI  
Polyester  
Industrial**

**Outdoor  
Decorative  
Finishes**

**Series 1 HEP  
Hybrid epoxy  
polyester**

**Indoor  
Decorative  
Finishes**

**Series 2 EPX  
Epoxy &  
Epoxy  
modified**



# Families

Series 5 PEA Polyester Facade



## Architectural & Durable Polyester Systems

Series	Finish	Gloss	Approvals/Certifications			Weather. Category	Market/Applications			
			GSB Master	GSB Standard	Qualicoat Class 1		Fassaden	SBCR	ACE	PF
59L	SMO	GLO 80 ±5	●			2	●		●	
59L/S0	SMO	SGL 70 ±5	●			2	●		●	
5 PF	SMO	TM TM		●	●	1				●
58L	SMO	GLO 80 ±5		●	●	1	●			
58/S0	SMO	SGL 70 ±5		●	●	1	●			
56L	SMO	SGL 60 ±5			●	1	●			
55R	FTX	SDM SDM			●	1	●	●		
52L	SMO	MAT 25 ±5		●	●	1	●	●		





# Families

Series 6 PEI  
Polyester  
Industrial



## Industrial Polyester Systems - not for Fassaden

Series	Finish	Glossiness Range	
69L/T0	SMO	HGL	>85
69L	SMO	GLO	85-75
69B	GBS	SGL	SGL
68L..67L	SMO	SGL	80-70
66L..65L	SMO	SGL	60-50
66R..65R	FTX	SGL	SGL
64L..63L	SMO	SDM	40-30
64R	FTX	SDM	SDM
62L	SMO	MAT	30-20
61L	SMO	DMAT	20-10

- HGL High gloss
- GLO Glossy/Glänzend/Lucido/Brillo/Brillant
- SGL Semigloss/Seidenglänzend/Semilucido/Semibrillo/Semi-brillant
- SDM Semi-matt/Seidenmatt/Semiopaco/Semimate/Satin
- MAT Matt/Opaco/Mate
- DMAT Deep Matt
  
- SMO Smooth/Glatt/Liscio/Liso/Lisse
- GBS Structured/Grobstruktur/Bucciato/Gofrado/Texturé
- FTX Fine Textured/Feistruktur/Raggrinzato/Texturado/Grainé
- NTK - Antique/Arabescato/Decor
- HAM - Hammered/Hammerschlag/Martellato/Martelado/Martelé
- MRB - Marble





# Families

**Series 1 HEP**  
**Hybrid epoxy polyester**



## Industrial Hybrid EP Systems -Indoor - Innen

Series	Finish	Glossiness Range	
19L	SMO	GL	>80
19B	GBS	SGL	SGL
18L/17L	SMO	SGL	80-70
16L/15L	SMO	SGL	60-50
16B	GBS	SDM	SDM
16R	FTX	SGL	SGL
14L	SMO	SDM	45-35
14R	FTX	SDM	SDM
14B/12B	GBS	MAT	MAT
13L/12L	SMO	MAT	30-20
11L	SMO	DMAT	20-10

GLO Glossy/Glanzend/Lucido/Brillo/Brillant  
 SGL Semigloss/Seidenglanzend/Semilucido/Semibrillo/Semi-brillant  
 SDM Semi-matt/Seidenmatt/Semiopaco/Semimate/Satin  
 MAT Matt/Opaco/Mate  
 DMAT Deep Matt

SMO Smooth/Glatt/Liscio/Liso/Lisse  
 GBS Structured/Grobstruktur/Bucciato/Gofrado/Texturé  
 FTX Fine Textured/Feistruktur/Raggrinzato/Texturado/Grainé  
 NTK - Antique/Arabescato/Decor  
 HAM - Hammered/Hammerschlag/Martellato/Martelado/Martelé  
 MRB - Marble





# Families

**Series 2 EPX**  
**Epoxy & Epoxy modified**



## EPX - Epoxy Systems - Indoor - Innen

Series	Finish	Glossiness Range	
29L	SMO	GL	>80
29B	GBS	SGL	SGL
28L/27L	SMO	SGL	80-70
26L/25L	SMO	SGL	60-50
26R	FTX	SGL	SGL
24R	FTX	SDM	SDM
22L	SMO	MAT	30-20
21L	SMO	DMAT	20-10

GLO Glossy/Glanzend/Lucido/Brillo/Brillant  
 SGL Semigloss/Seidenglanzend/Semilucido/Semibrillo/Semi-brillant  
 SDM Semi-matt/Seidenmatt/Semiopaco/Semimate/Satin  
 MAT Matt/Opaco/Mate  
 DMAT Deep Matt

SMO Smooth/Glatt/Liscio/Liso/Lisse  
 GBS Structured/Grobstruktur/Bucciato/Gofrado/Texturé  
 FTX Fine Textured/Feistruktur/Raggrinzato/Texturado/Grainé  
 NTK - Antique/Arabescato/Decor  
 HAM - Hammered/Hammerschlag/Martellato/Martelado/Martelé  
 MRB - Marble



Fusion Bonded





Surface	Pretreatment	Protection	PRIMER	Colour apx	Curing	Thickness μ	FINISH (*)	Thickness μ	Corrosion Category						
									C1	C2	C3	C4	C5-I	C5-M	
STE	C/M	BAR	22LG1B00220	7004	20-25' @ 180° 10-12' @ 190°	60-80	SERIE 5/6	80-90	Green	Green	Blue				
STE	C/M	REB	28LG1D69090	7044	20' @ 160° 15' @ 170°	80-100	SERIE 5/6	80-90	Green	Green	Green	Blue			
STE	C/M	CAT	28LG1C29090	7000	20' @ 160° 15' @ 170°	60-80	SERIE 5/6	80-90	Green	Green	Green	Green	Blue		
GS	C/M	BAR	23LG1704730	7047	40-45' @ 170	60-80	SERIE 5/6	80-90	Green	Green	Green	Blue	Yellow		
GS	C/M	BAR	16LG1D02430	7040	20-25' @ 180	60-80	SERIE 5/6	80-90	Green	Green	Green	Blue			
ALU	C	BAR	12LG1F26812	7040	10-15' @ 180	60-80	SERIE 5/6	80-90							

STE - Steel - GS - Galvanized steel -ALU -Aluminum  
 C - Chemical: Crystalline Zn-Ni Phosphating and passivation / comparable phosphate-free surface treatment processes  
 M - Mechanical : Sanblasting Ra 6-12μ ; Sa ≥ 2,5  
 BAR( Barrier Protection ); REBAR - Reinforced Barrier Protection ; CAT - Cathodic Protection  
 Curing TDS - see Technical Data Sheet

**RIPOL Systems:**  
 PRIMER FONDO B002 - EPX 22LG1B00220  
 PRIMER ZINC-FREE D690 - EPX 28LG1D69090  
 PRIMER ZINC RICH C290 - EPX 28LG1C29090  
 PRIMER EPX-GS - EPX 23LG1704730 Zinc-free for Galvanized steel  
 PRIMER GS D024- HEP 16LG1D02430 Zinc-free for Galvanized steel  
 PRIMER ALU F268- HEP 12LG1F26812 Zinc-free for Aluminum  
 SERIE 5 PEA- Facade Polyester - Qualicoat and GSB Certified  
 To improve gloss retention use PEA SERIE 59 HWF GSB Master Class  
 SERIE 6 PEI - Industrial Polyester



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## Our products

clear  
Coat



**Decorative Metallic &  
Special Effect Finishes**

*Excellence*  
Outdoor Collection



Indoor Collection  
*Elegance*





## Our products



### Decorative Metallic & Special Effect Finishes



#### Clear Coat and Clear Coat Metallic

**RIPOL Clear Coat** includes a range of transparent and colored transparent coatings available in glossy, matt, and satin finishes.

They are available in both Industrial Polyester, and Hybrid epoxy-polyester version.

They improve the aesthetics of the finished piece and add depth to a color. Metallic and pearl effects are available to give an even more spectacular overall effect.



## Our products



### Decorative Metallic & Special Effect Finishes

### *Excellence* Outdoor Collection

The **Excellence Collection** covers weather resistant metallic and special effects finishes suitable for exterior applications (Facade industry).

- Pearl Mica Metallic finishes
- Raffaello marble-like finishes
- Anodizing effects
- Antiques Décor





## Our products



### Decorative Metallic & Special Effect Finishes

#### Indoor Collection *Elegance*

The **Elegance Collection** includes metallic and special effects finishes for interior design. Available in a wide variety of colors, shades, effects and textures, RIPOL Special Effects powder coatings create design freedom without compromising strong functional properties.

- **Metallic effects**
- **Antiques Décor**
- **Marble-like effects**
- **Hammertones**
- **Fine textured metallic**
- **Pietra - stone-like effects**



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# Our products



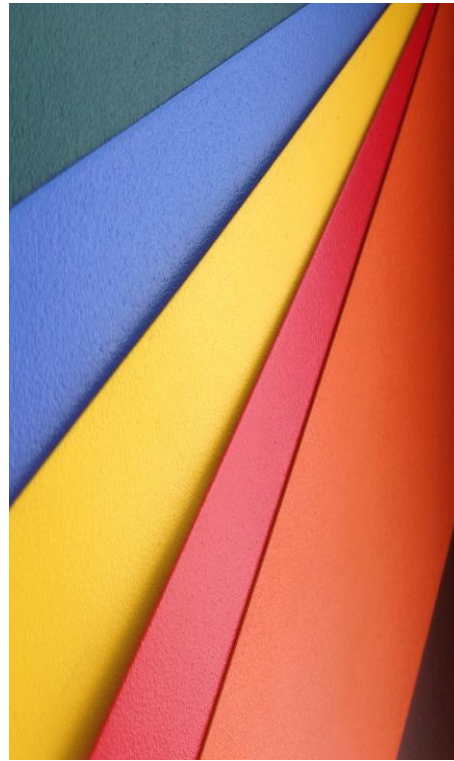
## Finishes

SEE MORE

STRUCTURED systems



FEINSTRUKTUR



Antiques



HammerSwing





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# Our products

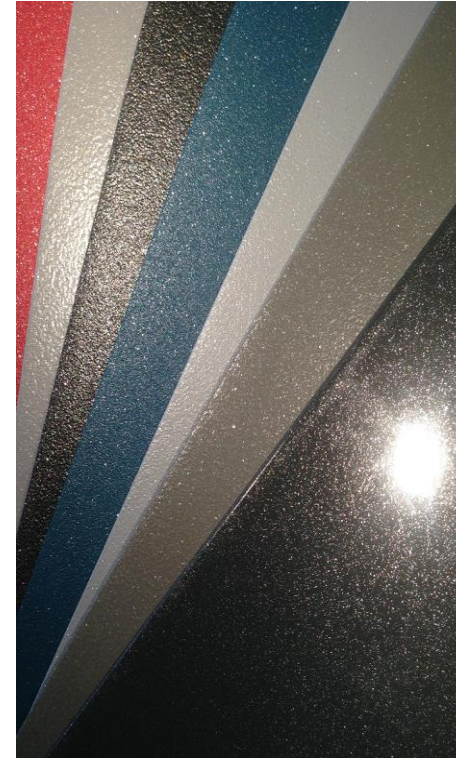


# Finishes

*Raffaello* MARBLES



*Pietra*



*Excellence*  
Outdoor Collection

Indoor Collection  
*Elegance*



More than 400 products available for immediate delivery. 2000 sqm Logistic Dept. equipped with a bar code scanning system to improve accuracy and ensure Fast and Accurate Loading Service

400+

 in stock





**RIPOL Group at a glance**

Legal Ownership:	Di Segni family
Establishment :	Y2000
Covered area:	10.000 sqm
Manufacturing area:	7.000 sqm
Warehouse:	2000 sqm
Offices and Laboratory:	900 sqm
Uncovered area:	5.000 sqm
Manufacturing locations:	Milan –Italy
Manufacturing capacity:	8.000 ton/y

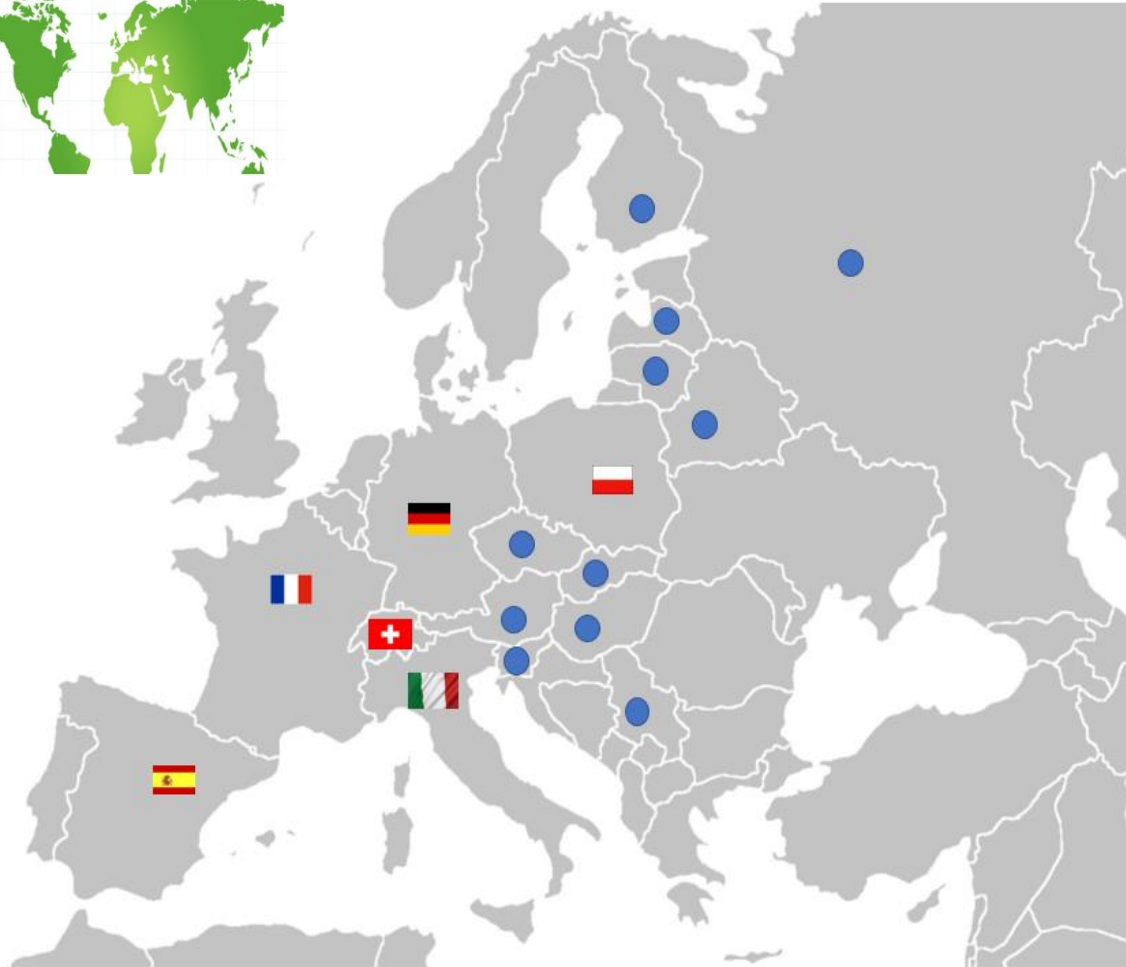
Employees: 55  
 Group Turnover: 18 mio € apx (Y2015)  
 Domestic Sales: 50 %  
 International Sales: 50 %  
 International subsidiaries: 5  
 International Dealers : EU & Overseas





**An International Attitude**

RIPOL has a vocation towards internationalization built into its own DNA. Since its creation RIPOL has set itself the goal of becoming a reference point for excellence in the European Powder Coatings market and has consequently made the necessary investments in terms of human and technological resources in order to reach the target set.



**Deutschland**  
**RIPOL GmbH**  
Bauhofring 2/1 71732 Tamm  
info-DE@ripol.com



**Switzerland**  
**RIPOL Sagl**  
CH-6906 Lugano  
info-CH@ripol.com



**Poland**  
**FARBY PROSKOWE Sp. Z o.o.**  
Iłżecka 26 -02-135 Warszawa, Polska  
info-PL@ripol.com



**Spain & Portugal**  
**RECUBRIMIENTOS TERMOENDURECIBLES**  
**RIPOL SLU**  
E- 08820 El Prat de Llobregat - Barcelona  
info-ES@ripol.com



**France**  
**RIPOL EURL**  
Paris - France  
info-FR@ripol.com





15 min de Milano Malpensa International Airport  
30 min de Milano City Centre –A4 Autoroute Milan-Turin – exit ARLUNO  
10 min de Milano **EXPO Village** / RHO-Fiera Metro Ligne MM 1 -RED

### Plant & Headquarters

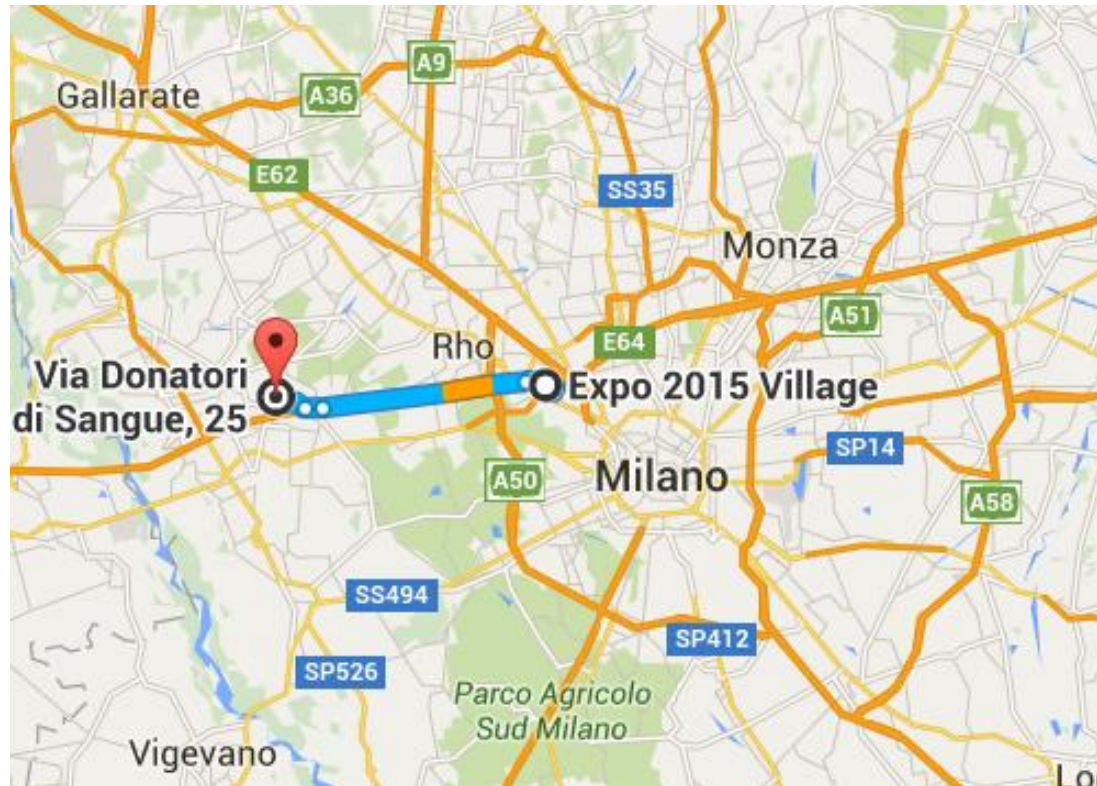
#### Operational HQS :

Via Donatori del Sangue, 25/A  
I-20010 S. Stefano Ticino -Milan  
GPS : 45°29'04.5"N 8°54'31.4"E  
Ph +39029748411  
Fax +390297484170

international@ripol.com  
www.ripol.com

#### Legal HQS

Foro Buonaparte 67  
20121 Milan





- 2000** Establishment of RIPOL SpA
- 2001** Sales start-up - Italian mkt
- 2003** RIPOL starts expanding in international markets  
Company obtains ISO 9001 - QUALICOAT and GSB Certifications  
Installation of a new extrusion line
- 2005** Investments in Mfg area - new equipment for metallic powders  
Strategic cooperation agreement in Russian Federation
- 2006** New investment in the ERP system  
New investment in Human Resources  
Continues domestic and int. Sales expansion
- 2007** Installation of a new extrusion line in the Mfg area
- 2008** Implementation of Stock assortment  
Architectural Matt and Semi gloss products  
Company obtain GSB Master Certification
- 2009** Establishment of RIPOL Deutschland
- 2010** Establishment of RIPOL Switzerland
- 2011** Group Record Sales  
Significant sales expansion in International mkts  
Establishment of RIPOL Espana
- 2012** Establishment of RIPOL Poland  
Establishment of RIPOL France
- 2014** Replacement of enterprise-resource planning (ERP) system
- 2015** Celebrating the 15° Anniversary  
Installation of a New Manufacturing Line "Small Batches"





## MISSION



Our mission is to be recognized by our customers and employees for our ability to manufacture premium quality powder coatings providing excellent service at competitive price.

We aim to achieve our goals through understanding our customer's need.

The primary objective of the RIPOL Group is to consolidate and develop its position at international level. The geographic location of our Subsidiaries and Dealers, and the wide range of products we offer enable us to meet the needs of our Customers.

Our strength is to constantly pursue research, innovation and excellence, to anticipate market change and to develop new coating solutions and create an innovative marketing image.



We take action on a daily basis based on the Group's founding values:

**transparency:** clarity, completeness and precision of information, of the business activities performed and in interpersonal relations;

**professionalism:** training and development of employees in a culture of continuous improvement;

**protection and welfare of the environment:** health and safety of the internal and external environment;

**recognition and reward of results:** total sharing of objectives and objective appraisal criteria to encourage and reward human resources.

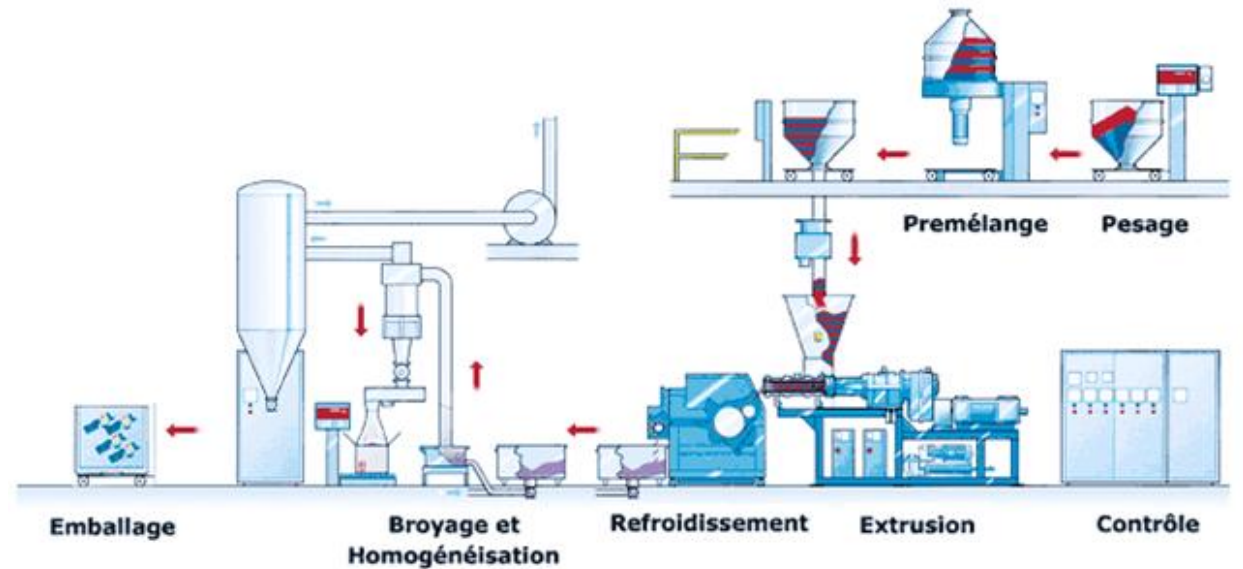


**Technology - State-of-the-art equipment and ERP**

Since from the beginning RIPOL invested in ultra-modern machine technology installing state-of-the-art manufacturing equipment integrated by an Integrated ERP system which controls all phases of manufacturing from the acceptance of raw materials to the shipment of finished goods. ISO 9001 process and quality systems assure customers that products are manufactured in strict conformance to their standards.

The integrated ERP System environment allows direct sharing of engineering and manufacturing data through an automated process. The Integrated ERP System guarantees that all departments involved in the product development and manufacturing cycle have access to current and accurate product data.

The Integrated ERP System reduces duplication of data, speeds product development cycles and improves new product turnaround time, enhancing the overall process in getting products to market and ultimately sustaining a company's competitive position.



**Bar Coding ( No papers )**





## Quality POLICY



### Corporate Quality Policy

Our comprehensive QCS Quality Control Systems ensure products meet or exceed customer requirements and it covers multiple departments in our organization as well as external groups such as vendors, distributors and most importantly, customers. Quality control covers all phase of the product life cycle (PLC) including design, development, production, distribution, servicing and documentation. It includes regulars on raw material quality, production plant procedures, inspection, management and service processes. Raw materials are ordered according to MRP logic so that company profitability is maximized and stock levels reduced to the minimum. Raw materials are labelled with a bar code and subjected to severe quality controls for acceptance. The operators pick up the raw materials by using a radio frequency terminal. Each weighing station is fitted with interconnected PC, bar code reader, label printer and scales. The planned orders appear directly on each terminal and are filled according to the preset sequence. All these procedures are designed to assure the highest level of quality, safety and **excellent batch-to-batch consistency** of the finished product. Ongoing investments in our facilities, infrastructure and equipment allow us to further improve our performance.

### Procurement Policy

We provide open, fair, and equitable opportunities to suppliers inside and outside EU wishing to conduct business with us. In selecting suppliers, we will take into consideration ISO 9001 certification, quality, cost, delivery schedules, the ability of the supplier to provide a stable supply, technological strength and know-how, the financial position of the supplier, and other factors.



# R&D

## Research & Development

Our success would not be possible without RIPOL's highly qualified team of researchers that, in cooperation with raw material and application systems suppliers along with important international research institutes, works daily to develop technically innovative competitive solutions to satisfy customer requirements. The laboratory is fitted with the most modern machinery and every single project is managed through sophisticated software that records all product's characteristics and monitors the progress of all the phases until the set objective is reached.

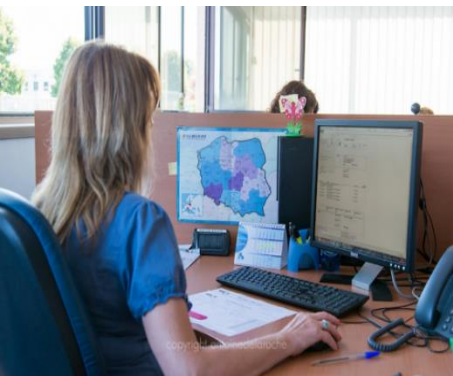




## CUSTOMER CARE

### Customer Care and Technical Support

A highly qualified, experienced and motivated team is available to assist customers in the pre-sale/post-sale phase. Their objective is to define the customer's requirements when developing new products and fine tune the application system for the plant/product start-up phase. All the human resources apply in their daily work the principle that customer's satisfaction should be placed in the first place without any compromise.



### Continuos Improvement

In today's environment a company can't survive on a strong brand alone, success is built on actions, authenticity and the ability to deliver value for our customer. Customers want to buy more than a brand name; they want to know they are dealing with an ethical and reliable company, and also one that is going to continually strive to improve.

Continuous improvement is top of the agenda in all manufacturing environments, challenging what you do and how you do it is part of day to day life - so it's important for us to have values that focus on this as an overriding objective.



## Environment Protection

Preservation of the environment and Health & Safety issues are also of paramount importance. In response to the call of protecting our environment, RIPOL has implemented a corporate social responsibility program that fully compliant with EU RoHS/WEEE directives.

The program enables RIPOL to provide ecologically friendly products which do not contain TGIC, heavy metals and other dangerous substances.

RIPOL selected the best European raw materials suppliers preferably UNI EN ISO 14000 certified, and actively committed to environmental policies. Additionally, RIPOL's Environmental Management System also takes on the responsibility for the collection and recycling of waste.







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## Licenses & Certifications






**DNV BUSINESS ASSURANCE  
MANAGEMENT SYSTEM CERTIFICATE**

Certificato No. / Certificate No. **CERT-12107-2003-AQ-MIL-SINCERT**

Si attesta che / This is to certify that

**RIPOL S.p.A.**

Via Donatori del Sangue, 25/a - 20010 Santo Stefano Ticino (MI) - Italy  
(Riferimento al Supplemento "A" / Refer to Supplement "A")

è conforme ai requisiti della norma per i sistemi di gestione;  
has been found to conform to the management system standard:

**UNI EN ISO 9001:2008 (ISO 9001:2008)**

Questa Certificazione è valida per il seguente campo applicativo:  
This Certificate is valid for the following product or service ranges:

**Progettazione, ricerca e sviluppo, produzione e commercializzazione di rivestimenti in polvere termoidurenti**  
(Settore EA : 12)

Design, research and development, production and sale of thermosetting powder coatings  
(Sector EA : 12)

Data Prima Emissione/Initial Certification Date:  
**2003-04-03**

Il Certificato è valido fino al:  
This Certificate is valid until:  
**2015-03-04**

L'audit è stato eseguito sotto la supervisione di/  
The audit has been performed under the supervision of

**Luisa Colombo**  
Lead Auditor

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione.  
Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DET NORGE VEITAFJELLSH. - CENTRO DIREZIONALE COLLEGE - PALAZZO D&W - V.le COLONNA 9 - 20090 AGRATE BRIANZA (MB) - ITALY - TEL. 039/2697005 - WWW.DNVGL.COM/IT




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Numero di PLASIA per gli utenti di accreditamento ISO  
554 41011 2 192 41011 2 per gli utenti di accreditamento ISO 554 41011 2  
e per i PLASIA per gli utenti di accreditamento ISO

Luogo e Data/Place and Date:  
**Agrate Brianza (MB), 2014-03-10**

Per l'Organismo di Certificazione:  
For the Certification Body:

**Zeno Beltrami**  
Management Representative



**DNV BUSINESS ASSURANCE  
MANAGEMENT SYSTEM CERTIFICATE**

Supplemento "A" / Supplement "A" to Certificate No. **CERT-12107-2003-AQ-MIL-SINCERT**

Le sedi e i servizi erogati da R. Sociale inclusi nella Certificazione sono i seguenti:  
The units and services supplied by R. Sociale included in the Certification are the following:

**Bauhfring 2/1 - D-71732 Tamm - Germania**  
**Via Carlo Cattaneo 21 - 6906 Lugano (CH) - Svizzera**  
**Avda. Les Gurrigues, 46 - E-08820 El Frui de Liobregui - Spugna**

**Commercializzazione di rivestimenti in polvere termoidurenti**  
Sale of thermosetting powder coatings

Data Prima Emissione/Initial Certification Date:  
**2003-04-03**

Il Certificato è valido fino al:  
This Certificate is valid until:  
**2015-03-04**

L'audit è stato eseguito sotto la supervisione di/  
The audit has been performed under the supervision of

**Luisa Colombo**  
Lead Auditor

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DET NORGE VEITAFJELLSH. - CENTRO DIREZIONALE COLLEGE - PALAZZO D&W - V.le COLONNA 9 - 20090 AGRATE BRIANZA (MB) - ITALY - TEL. 039/2697005 - WWW.DNVGL.COM/IT



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Numero di PLASIA per gli utenti di accreditamento ISO  
554 41011 2 192 41011 2 per gli utenti di accreditamento ISO 554 41011 2  
e per i PLASIA per gli utenti di accreditamento ISO

Luogo e Data/Place and Date:  
**Agrate Brianza (MB), 2014-03-10**

Per l'Organismo di Certificazione:  
For the Certification Body:

**Zeno Beltrami**  
Management Representative



**GSB INTERNATIONAL**

**VORLÄUFIGE Material Zulassung**      **PRELIMINARY Material Licence**

Die GSB INTERNATIONAL verleiht nach positiver Prüfung des Beschichtungsmaterials Serie 52 L der Firma

The GSB INTERNATIONAL awards after a positive approval test of the coating material Serie 52 L to the company

**GSB INTERNATIONAL STANDARD Aluminium Coating Material** ★

**RIPOL S.r.l.**  
Via Donatori del Sangue 25 / A  
20010 S. STEFANO TICINO (MI)  
ITALY

unter der Zulassungsnummer 157 a das Recht, dieses Beschichtungsmaterial wie nebenstehend zu kennzeichnen und damit alle Unternehmen, die Inhaber des Qualitätssiegels für die Stückbeschichtung von Bauteilen aus Aluminium sind, zu beliefern. Die Zulassung setzt voraus, dass die GSB Qualitätsrichtlinien AL 631 erfüllt werden.

with the licence number 157 a the right to label the coating material as shown left. This includes the right to supply all users of the quality label for the piecework coating of aluminium building components with the material approved through this licence. The major prerequisite for doing so is the fulfillment of the GSB Quality Regulations AL 631.

Gültig bis: 31.07.2019      Valid till: 2019/07/31  
Überwachung: jährlich      Monitoring: yearly

GSB INTERNATIONAL e. V.,  
Am Bonnehof 5, D-40474 Düsseldorf  
June 15<sup>th</sup>, 2015

*[Signatures]*  
Vorstandler des Vorstandes Chairman of the Board      Vorstandler des Güteausschusses Aluminium Chairman of the Quality Committee Aluminium

**GSB INTERNATIONAL**

**GSB INTERNATIONAL**

**Material Zulassung**      **Material Licence**

Die GSB INTERNATIONAL verleiht nach positiver Prüfung des Beschichtungsmaterials Serie 58 L - NEW der Firma

The GSB INTERNATIONAL awards after a positive approval test of the coating material Serie 58 L - NEW to the company

**GSB INTERNATIONAL STANDARD Aluminium Coating Material** ★

**RIPOL S.r.l.**  
Via Donatori del Sangue 25 / A  
20010 S. STEFANO TICINO (MI)  
ITALY

unter der Zulassungsnummer 157 d das Recht, dieses Beschichtungsmaterial wie nebenstehend zu kennzeichnen und damit alle Unternehmen, die Inhaber des Qualitätssiegels für die Stückbeschichtung von Bauteilen aus Aluminium sind, zu beliefern. Die Zulassung setzt voraus, dass die GSB Qualitätsrichtlinien AL 631 erfüllt werden.

with the licence number 157 d the right to label the coating material as shown left. This includes the right to supply all users of the quality label for the piecework coating of aluminium building components with the material approved through this licence. The major prerequisite for doing so is the fulfillment of the GSB Quality Regulations AL 631.

Gültig bis: 31.07.2019      Valid till: 2019/07/31  
Überwachung: jährlich      Monitoring: yearly

GSB INTERNATIONAL e. V.,  
Am Bonnehof 5, D-40474 Düsseldorf  
October 20<sup>th</sup>, 2015

*[Signatures]*  
Vorstandler des Vorstandes Chairman of the Board      Vorstandler des Güteausschusses Aluminium Chairman of the Quality Committee Aluminium

**GSB INTERNATIONAL**

**GSB INTERNATIONAL**

**VORLÄUFIGE Material Zulassung**      **PRELIMINARY Material Licence**

Die GSB INTERNATIONAL verleiht nach positiver Prüfung des Beschichtungsmaterials Serie 59 L, Lic. Master der Firma

The GSB INTERNATIONAL awards after a positive approval test of the coating material Serie 59 L, Lic. Master to the company

**GSB INTERNATIONAL MASTER Aluminium Coating Material** ★★

**RIPOL S.r.l.**  
Via Donatori del Sangue 25 / A  
20010 S. STEFANO TICINO (MI)  
ITALY

unter der Zulassungsnummer 157 b das Recht, dieses Beschichtungsmaterial wie nebenstehend zu kennzeichnen und damit alle Unternehmen, die Inhaber des Qualitätssiegels für die Stückbeschichtung von Bauteilen aus Aluminium sind, zu beliefern. Die Zulassung setzt voraus, dass die GSB Qualitätsrichtlinien AL 631 erfüllt werden.

with the licence number 157 b the right to label the coating material as shown left. This includes the right to supply all users of the quality label for the piecework coating of aluminium building components with the material approved through this licence. The major prerequisite for doing so is the fulfillment of the GSB Quality Regulations AL 631.

Gültig bis: 31.07.2019      Valid till: 2019/07/31  
Überwachung: jährlich      Monitoring: yearly

GSB INTERNATIONAL e. V.,  
Am Bonnehof 5, D-40474 Düsseldorf  
June 15<sup>th</sup>, 2015

*[Signatures]*  
Vorstandler des Vorstandes Chairman of the Board      Vorstandler des Güteausschusses Aluminium Chairman of the Quality Committee Aluminium

**GSB INTERNATIONAL**



APPROVAL for coating materials

The Association for Quality Controls in the Lacquering, Painting and Coating Industry, abbreviated to QUALICOAT, hereby grants an approval based on the test results

Table with 2 columns: Field (e.g., Report submitted by, Date of Issue) and Value (e.g., QUALITAL, 16.03.2004)

This product may be described and labeled as follows

Product tested and approved for the quality mark



and may therefore be offered to all companies holding the quality label for paint, lacquer and powder coatings on aluminium for architectural applications

Zurich, 17 December 2015

QUALICOAT

M.C. Panam - Mohammed C. Panam President

JOSEF SCHOPPLIG - General Secretary

APPROVAL for coating materials

The Association for Quality Controls in the Lacquering, Painting and Coating Industry, abbreviated to QUALICOAT, hereby grants an approval based on the test results

Table with 2 columns: Field (e.g., Report submitted by, Date of Issue) and Value (e.g., QUALITAL, 02.07.2002)

This product may be described and labeled as follows

Product tested and approved for the quality mark



and may therefore be offered to all companies holding the quality label for paint, lacquer and powder coatings on aluminium for architectural applications

Zurich, 17 December 2015

QUALICOAT

M.C. Panam - Mohammed C. Panam President

JOSEF SCHOPPLIG - General Secretary

APPROVAL for coating materials

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APPROVAL for coating materials

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Table with 2 columns: Field (e.g., Report submitted by, Date of Issue) and Value (e.g., QUALITAL, 20.09.2005)

This product may be described and labeled as follows

Product tested and approved for the quality mark



and may therefore be offered to all companies holding the quality label for paint, lacquer and powder coatings on aluminium for architectural applications

Zurich, 17 December 2015

QUALICOAT

M.C. Panam - Mohammed C. Panam President

JOSEF SCHOPPLIG - General Secretary



**ISHIZUKA GLASS Co., Ltd.**  
Advanced Glass Company

1980 Kawai-cho, Iwakura-shi, Aichi-ken 482-8510, JAPAN TEL:+81-587-37-3251 / FAX:+81-587-37-3230

2 May 2012

Messrs. Sides S.p.A. – Ripol

ISHIZUKA GLASS CO., LTD.  
Advanced Glass Company

**REPORT ON ANTI-MICROBIAL TEST RESULT**

1. Sample: Polyester / Epoxy Powder Coated Plates

No.	Sample
1.	19L Blank-H (Epoxy polyester)
2.	19L (3-H) (Epoxy polyester)
3.	19L (5-H) (Epoxy polyester)

2. Outline of test:

The test was executed in according with "JIS Z 2801-2010."

<Bacteria used for test>

*Escherichia coli* NBRC3972  
*Staphylococcus aureus* NBRC12732

3. Test result:

Table 1. Test result of Anti-microbial effect against *Escherichia coli*

Sample	Number of living bacteria			Antimicrobial activity value against Blank	Reduction %
	At beginning (Per cm <sup>2</sup> )	After 24 hours (Per piece)	After 24 hours (Per cm <sup>2</sup> )		
1. 19L Blank-H	1.1 × 10 <sup>4</sup>	2.3 × 10 <sup>3</sup>	1.4 × 10 <sup>6</sup>	-----	-----
2. 19L (3-H)	1.1 × 10 <sup>4</sup>	<1 × 10 <sup>3</sup>	<6.3	>5.4	>99.999
3. 19L (5-H)	1.1 × 10 <sup>4</sup>	<1 × 10 <sup>3</sup>	<6.3	>5.4	>99.999
Control (Film only)	1.1 × 10 <sup>4</sup>	4.2 × 10 <sup>7</sup>	2.6 × 10 <sup>6</sup>		

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Table 2. Test result of Anti-microbial effect against *Staphylococcus aureus*

Sample	Number of living bacteria			Antimicrobial activity value against Blank	Reduction %
	At beginning (Per cm <sup>2</sup> )	After 24 hours (Per piece)	After 24 hours (Per cm <sup>2</sup> )		
1. 19L Blank-H	1.5 × 10 <sup>4</sup>	2.0 × 10 <sup>6</sup>	1.3 × 10 <sup>5</sup>	-----	-----
2. 19L (3-H)	1.5 × 10 <sup>4</sup>	<1 × 10 <sup>2</sup>	<6.3	>4.4	>99.995
3. 19L (5-H)	1.5 × 10 <sup>4</sup>	<1 × 10 <sup>2</sup>	<6.3	>4.4	>99.995
Control (Film only)	1.5 × 10 <sup>4</sup>	1.0 × 10 <sup>6</sup>	6.3 × 10 <sup>4</sup>		

4. Consideration:

Sample 2 and 3 showed antimicrobial efficacy against both *Escherichia coli* and *Staphylococcus aureus* as its activity value exceeded the standard value of 2.0, which means this application has a >99% bacterial reduction rate.

ISHIZUKA GLASS CO., LTD.

阿部内隆紀  
Tomoshige Hasegawa  
For MANAGER

**RIPOL Series 1  
Antimicrobial Test  
Result according to  
JIS Z-2801-2010**



**SEE MORE**



**ISHIZUKA GLASS Co., Ltd.**  
Advanced Glass Company

1880 Kawal-cho, Iwakura-shi, Aichi ken 482-8510, JAPAN TEL:+81-587-37-3251 / FAX:+81-587-37-3230

6 August 2012

Messrs. Sides S.p.A. - Ripol

ISHIZUKA GLASS CO., LTD.  
Advanced Glass Company

**REPORT ON ANTI-MICROBIAL TEST RESULT**

**1. Sample: Polyester Coated Plates**

No.	Sample
1.	58L Blank P White
2.	58L 6-P White
3.	58L 8-P White
4.	58L Blank P Grey
5.	58L 6-P Grey
6.	58L 8-P Grey

**2. Outline of test:**

The test was executed in according with "JIS Z 2801-2010."

<Bacteria used for test>

*Escherichia coli* NBRC3972  
*Staphylococcus aureus* NBRC12732

**3. Test result:**

Table 1. Test result of Anti-microbial effect against *Escherichia coli*

Sample	Number of living bacteria			Antimicrobial activity value against Blank	Reduction %
	At beginning (Per cm <sup>2</sup> )	After 24 hours (Per piece)	After 24 hours (Per cm <sup>2</sup> )		
1. 58L Blank P White	1.2 × 10 <sup>4</sup>	3.9 × 10 <sup>7</sup>	4.3 × 10 <sup>6</sup>	-----	-----
2. 58L 6-P White	1.2 × 10 <sup>4</sup>	<1 × 10 <sup>2</sup>	<1.1 × 10	>5.5	>99.9997
3. 58L 8-P White	1.2 × 10 <sup>4</sup>	<1 × 10 <sup>2</sup>	<1.1 × 10	>5.5	>99.9997
4. 58L Blank P Grey	1.2 × 10 <sup>4</sup>	1.0 × 10 <sup>7</sup>	1.1 × 10 <sup>6</sup>	-----	-----
5. 58L 6-P Grey	1.2 × 10 <sup>4</sup>	1.0 × 10 <sup>3</sup>	1.1 × 10 <sup>6</sup>	0	0
6. 58L 8-P Grey	1.2 × 10 <sup>4</sup>	<1 × 10 <sup>2</sup>	<1.1 × 10	>5.0	>99.999
Control (Film only)	1.2 × 10 <sup>4</sup>	1.2 × 10 <sup>7</sup>	1.3 × 10 <sup>6</sup>		

**ISHIZUKA GLASS Co., Ltd.**  
Advanced Glass Company

1880 Kawal-cho, Iwakura-shi, Aichi ken 482-8510, JAPAN TEL:+81-587-37-3251 / FAX:+81-587-37-3230

Table 2. Test result of Anti-microbial effect against *Staphylococcus aureus*

Sample	Number of living bacteria			Antimicrobial activity value against Blank	Reduction %
	At beginning (Per cm <sup>2</sup> )	After 24 hours (Per piece)	After 24 hours (Per cm <sup>2</sup> )		
1. 58L Blank P White	1.4 × 10 <sup>4</sup>	3.0 × 10 <sup>5</sup>	3.3 × 10 <sup>3</sup>	-----	-----
2. 58L 6-P White	1.4 × 10 <sup>4</sup>	<1 × 10 <sup>2</sup>	<1.1 × 10	>3.4	>99.96
3. 58L 8-P White	1.4 × 10 <sup>4</sup>	<1 × 10 <sup>2</sup>	<1.1 × 10	>3.4	>99.96
4. 58L Blank P Grey	1.4 × 10 <sup>4</sup>	3.2 × 10 <sup>5</sup>	3.6 × 10 <sup>4</sup>	-----	-----
5. 58L 6-P Grey	1.4 × 10 <sup>4</sup>	2.6 × 10 <sup>4</sup>	2.9 × 10 <sup>3</sup>	1.1	91
6. 58L 8-P Grey	1.4 × 10 <sup>4</sup>	<1 × 10 <sup>2</sup>	<1.1 × 10	>3.5	>99.96
Control (Film only)	1.4 × 10 <sup>4</sup>	7.9 × 10 <sup>5</sup>	8.8 × 10 <sup>4</sup>		

**4. Consideration:**

Regarding white color sample, both Sample 2 and 3 showed antimicrobial efficacy against both *Escherichia coli* and *Staphylococcus aureus* as its activity value exceeded the standard value of 2.0, which means this application has a >99% bacterial reduction rate. On the other hand, Grey sample of Sample 6 showed antimicrobial efficacy against both bacteria as its activity value exceeded the standard value of 2.0, which means the application has a >99% bacterial reduction rate.

ISHIZUKA GLASS CO., LTD.

Tomoshige Hasegawa  
MANAGER

**RIPOL Series 5/6  
Antimicrobial Test  
Result according to  
JIS Z-2801-2010**





INSTITUTE FOR ENGINEERING  
OF POLYMER MATERIALS AND DYES  
87-100 Toruń ul. M. Skłodowskiej-Curie 55



AB 163

Paint and Plastics Department  
44 – 100 Gliwice  
ul. Chorzowska 50 A

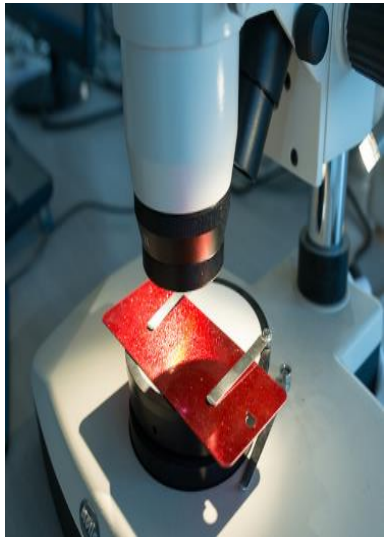
**Analytical Research Laboratory**

### Test Report No. 332/2015

Type of test	Test subject	Name and address of the Client
Coating system resistance to: <ul style="list-style-type: none"> <li>➤ humidity for 720 hours</li> <li>➤ neutral salt spray for 1440 hours</li> <li>➤ cross-cut test</li> </ul>	Coating system: <ul style="list-style-type: none"> <li>➤ primer: 28LG1D69090 PRIMER PROTECTION</li> <li>➤ top coat: 68LG1703340 GREY RAL 7033</li> </ul>	RIPOL Farby proszkowe Sp. z o.o. 02-135 Warszawa Iłżecka 26



# Services



**TDS & MSDS**

**Colorimetric**

**Batch QC**

**PSD**

**SST – QUV – Q-SUN**

**On site**







# Technical Services

TDS & MSDS

Colorimetric

Batch QC

PSD

SST – QUV – Q-SUN

On site

## Safety Data Sheet 58LB1500730 - BLUE RAL 5007



Safety Data Sheet dated 31/7/2015, version 1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier
  - Mixture identification: BLUE RAL 5007
  - Trade name: 58LB1500730
  - Trade code: 58LB1500730
- 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.3. Details of the supplier of the safety data sheet

Company:  
RIPOL S.r.l. - Via Donatori del sangue, 25/A  
20010 Santo Stefano Ticino (MI) - Italy  
Tel. (+39) 02 9748411  
Fax (+39) 02 97484170

Competent person responsible for the safety data sheet:  
info@ripol.com

- 1.4. Emergency telephone number  
Tel. (+39) 02 9748411  
Lun - ven 8.30 - 12.30 / 14.00 - 17.30



### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP)  
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).  
Adverse physicochemical, human health and environmental effects:  
No other hazards
- 2.2. Label elements  
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).  
Symbols:  
None  
Hazard statements:  
None  
Precautionary statements:  
None  
Special Provisions:  
None  
Special provisions according to Annex XVII of REACH and subsequent amendments:  
None
- 2.3. Other hazards  
vPvB Substances: None - PBT Substances: None  
Other Hazards:  
No other hazards

### SECTION 3: Composition/information on ingredients

- 3.1. Substances  
N.A.
- 3.2. Mixtures  
Hazardous components within the meaning of the CLP regulation and related classification:  
None.



<b>TECHNICAL DATA SHEET</b> <b>SERIES 58L</b> Edition 1 date 01/15, 2013
--

Mod.73-5801 / ENG

Edition Article 5 - Edition date 25/03/2014

Part. No.: 58lw1901630 WHITE RAL 9016 - SMOOTH - GLOSSY  
 Approvals: QUALICOAT Approval P0433, Cat. 3 and GSB Approval 157a

### Powder properties

**Chemical composition:** TGIC-free polyester  
**Storage:** The product has a shelf life of 36 months if stored in its original packing in a fresh and dry environment at a temperature below 30 °C.  
**Cure conditions:** 15-25 minutes at 180 °C 12-18 minutes at 190 °C 10-12 minutes at 200 °C (actual temperature of the substrate)  
**Application method:** corona electrostatic guns or tribo electric guns.  
**Application range:** for exterior use.  
**Particle size analysis:** It is suitable for electrostatic applications.  
**Optimum film thickness:** 60-80 µm  
**Specific weight:** 1,64 Kg/dm<sup>3</sup> ± 0,05  
**Product performance:** 10,16 m<sup>2</sup> / Kg (60 µm)  
**Pre-treatment:** Ferrous substrates, zinc coated steel: Salt of zinc phosphate coating  
 Aluminium: Chrome-free or chromate conversion coatings  
**Test Thickness:** 65 ± 10 µm UNI EN ISO 2380:2004



### Mechanical and Chemical properties

<b>Gloss:</b>	85 ± 5 (60° - 15°@180°C)	UNI EN ISO 2813:2002
<b>Adhesion:</b>	GTO (equivalent to 5B according to ASTM D 3359)	UNI EN ISO 2409:2007
<b>Pencil hardness:</b>	H-2H	UNI 10782:1999
<b>Impact Test:</b>	≥ 2.5 Nm	UNI EN ISO 6272-2:2006
<b>Bending:</b>	5 mm	UNI EN ISO 6890:2006
<b>Erichsen:</b>	≥ 5 mm (no detachments, no cracks)	UNI EN ISO 1520:2007
<b>Hardness Buchholz:</b>	≥ 80	UNI EN ISO 2815:2005
<b>Salt spray resistance:</b>	1000 h (≤ 3 mm)	UNI EN ISO 9227:2008
<b>Salt spray resistance (Acetic):</b>	1000 h (≤ 4 mm)	UNI EN ISO 9227:2008
<b>Q-UVA (340 nm):</b>	200 h (loss of glossiness < 50%)	UNI EN ISO 11507:2007
<b>Humidity resistance:</b>	1000 h	UNI EN ISO 6270:2001
<b>Kesternich corrosion:</b>	> 24 cycles (≤ 1 mm)	UNI EN ISO 3231:1999
<b>Acid / alkali resistance:</b>	Resistant to diluted acids, alkali, and oils at normal temperatures.	

### Disclaimer

The information reported herein is not exhaustive. Use of the product for purposes or uses other than those it was designed for, without prior written authorization of RIPOL S.p.A., is done solely under the user's responsibility. RIPOL S.p.A. takes all care to verify that all advice and directives concerning the product indicated in the relevant reports or verbally conveyed by its personnel are correct and applicable. Nevertheless, RIPOL S.p.A. is not responsible for the conditions of the substrate or of numerous other factors that may affect the final performance of the product. Without a prior written agreement, we cannot accept any responsibility on any of our products for damage or loss (including injury or death) due to improper use of the product. All information contained in the report is subject to future modifications consequent to continuous development of our expertise and to our policy of constantly improving our products and therefore is not binding.



# Technical Services

## TDS & MSDS

## Colorimetric

## Batch QC

## PSD

## SST – QUV – Q-SUN

## On site



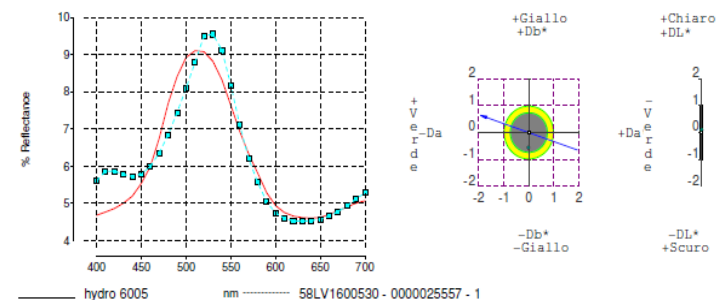
### CIE L\*a\*b\* differenza colore

Data prospetto: 03-May-11  
 Ora: 15:52  
 Geometria misur std %R SAV SCI UV Inc  
 Geometria misur camp %R SAV SCI UV Inc

Condizioni illuminante/osservatore  
 1) D65 10 Deg  
 2) A 10 Deg  
 3) F02 10 Deg

Nome standard:	Ill/oss	L*	a*	b*	C*	h
6005	1	31.92	-13.60	4.55	14.34	161.52
	2	30.74	-11.49	1.28	11.56	173.62
	3	31.04	-9.79	3.90	10.54	158.31
Nome campione:						
58LV1600530 - 0000025557 - 1		32.04	-13.62	3.99	14.19	163.69
Data misuraz campione 09-Mar-11	2	30.82	-12.42	1.19	12.48	174.53
Ora misuraz campione 10:49:48	3	31.15	-10.35	2.85	10.74	164.61

Ill/oss	DL*	Da*	Db*	DC*	DH*	DE*
D65 10 Deg	0.11	-0.02	-0.56	-0.15	0.54	0.57
A 10 Deg	0.08	-0.94	-0.09	0.92	0.19	0.95
F02 10 Deg	0.11	-0.56	-1.05	0.20	1.17	1.19



# Colorimetric





# Technical Services

TDS & MSDS

Colorimetric

Batch QC

PSD

SST – QUV – Q-SUN

On site



# BATCH

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
= ISO 9001 =



## PRODUCT TEST CERTIFICATE

Report No. 3691  
Part No. 58LW1901630  
Description WHITE RAL 9016  
Surface finish SMOOTH - GLOSSY  
Batch No. 0000038654  
Test date 2/11/2015  
Control plan 2238 Revision index 1

## TESTING CONDITIONS

Substrate steel panel 60 x 140 x 0.5 mm  
aluminum panel 60 x 140 x 0.5 mm (Alloy 5005 - H24)  
(only for the series 52L, 55R, 56L e 58L)  
Cure conditions (substrate) 15' 180°C  
Film thickness 60 µm ± 80 µm

## BATCH TEST RESULTS

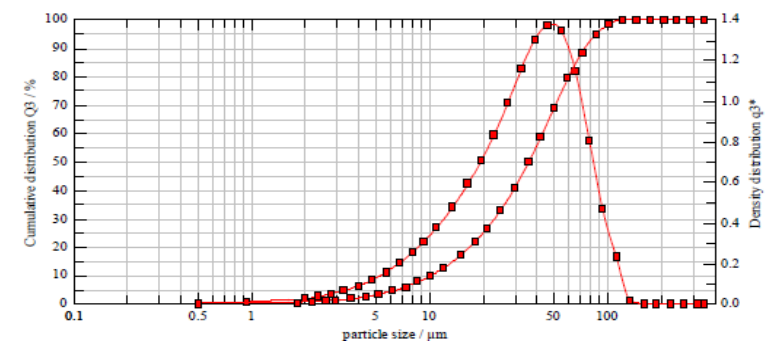
Characteristics	Min.	Max.	Test Value	Unit	Method
Average particle size analysis			34.1	µm	IO 75-11
Gloss level check at 60°	80	90	88	GU	UNI EN ISO 2813:2002
Colour check			OK		Visivo
Surface finish check			OK		Visivo
Impact Test (>= 2.5)			OK	Nm	UNI EN ISO 6272-2:2006
External packaging integrity			OK		Visivo
Presence of labels			OK		Visivo

# PSD

Analisi granulometrica  
Particle Size analysis

Analisi effettuata con Sympatec HELOS (HI868) - RODOS, R4: 0.5/L.8...350µm 2012-06-15, 19:58:43  
Vernice in polvere WARNING: Coarse particles probably exceeding the measuring range.

evaluation: WINDOX 5.2.1.0, HRLD	prodotto: Vernice in polvere
revalidation:	density: 1.00 g/cm³, shape factor: 1.00
reference measurement: 06-15 13:26:08	disp. meth.: RIPOL 2012 M 03
contamination: 0,00 %	C <sub>opt</sub> = 5,06 %
trigger condition: Condizioni standard ripol	identificazione polvere:
time base: 200,00 ms	Codice: 19LW1901040
start: c_opt >= 2%	Lotto:
valid: 2% <= c_opt <= 25%	Scatola n°: 20
stop: 10s meas.time or 15s real time	Mulino: 1



### cumulative distribution

x <sub>0</sub> /µm	Q <sub>3</sub> /%	x <sub>0</sub> /µm	Q <sub>3</sub> /%	x <sub>0</sub> /µm	Q <sub>3</sub> /%	x <sub>0</sub> /µm	Q <sub>3</sub> /%
1,80	0,28	7,40	5,93	30,00	40,56	122,00	99,90
2,20	0,56	8,60	7,56	36,00	49,74	146,00	100,00
2,60	0,81	10,00	9,56	42,00	55,42	174,00	100,00
3,00	1,09	12,00	12,52	50,00	68,80	206,00	100,00
3,60	1,59	15,00	17,10	60,00	79,42	246,00	100,00
4,40	2,35	18,00	21,77	72,00	88,48	284,00	100,00
5,20	3,21	21,00	26,48	86,00	94,69	350,00	100,00
6,20	4,29	25,00	32,75	102,00	98,11		

x<sub>10</sub> = 10,30 µm    x<sub>50</sub> = 36,18 µm    x<sub>90</sub> = 75,43 µm    SMD = 20,56 µm    VMD = 40,09 µm  
x<sub>16</sub> = 14,28 µm    x<sub>84</sub> = 66,07 µm    x<sub>99</sub> = 111,96 µm    S<sub>v</sub> = 0,29 m<sup>2</sup>/cm<sup>2</sup>    S<sub>m</sub> = 2918,85 cm<sup>2</sup>/g

Granulometria media /Average particle size (x50) --> 36,18 µm

RESIDUI TEORICI --> Setaccio 20 µm = 75,09 %    Setaccio 40 µm = 44,47 %    Setaccio 90µm = 4,46 %



**Technical Services**

**TDS & MSDS**

**Colorimetric**

**Batch QC**

**PSD**

**SST – QUV – Q-SUN**

**On site**



**Salt Spray Equipment**



**QUV- Accelerated Weathering Tester**



**Q-SUN Xenon Test Chamber**





**Technical Services**

**TDS & MSDS**

**Colorimetric**

**Batch QC**

**PSD**

**SST – QUV – Q-SUN**

**On site**



**Oven Data  
Logger**



**Coating  
thickness gauge**



**Gloss measurement**



**Resistance-surface  
Tester**



# Services

## Products Codification

## How To Read Alphanumeric 11 Digits Barcodes



Pos. 1	
Nature	
1	Hybrid EP
2	Epoxy
5	Facade PE
6	Industrial PE

Pos. 2	
Glossiness	
9	High gloss
8	Glossy
8...S0	Semigloss
7/6/5	Semigloss
4/3	Semimatt
2/1	matt

Pos. 3	
Finish	
L	smooth
B	structured
R	fine textured
M	hammered
A	antiques

RAL code / Lab Code

Pos. 10	
Auxiliary info	
1/3	standard
4/5/6	internal
7/9	curing
S	semigloss

5	8	L	W	1	9	0	1	6	3	0
POS 1	POS 2	POS 3	POS 4	POS 5	POS 6	POS 7	POS 8	POS 9	POS 10	POS 11

Pos. 4	
Color	
A	orange
B	blue
G	grey
M	brown
N	black
P	purple
R	red
S	ivory
T	clear
V	green
W	white
Y	yellow

Pos. 5	
Effect	
1	normal
2	metallic
3	clear
4	clear met
5	marble
6	marble-met
7	bonded



Pos. 11	
Packaging	
0	25 kg Carton Box
2	20 kg Carton Box
4	500 KG BIG Carton -free powder
5	500 KG Textile Big Bag
6	500 KG Big Carton +25 kg sacks
7	500 KG Big Carton +20 kg sacks