

RIPOL Series 6

LOW CURE POWDER COATINGS

Energy Efficiency and Productivity.
Uncompromising quality.



LC Series
Smooth
and
Glossy

LC Series
Smooth and
Matt

FC Series
Fine
Textured



Low Cure Powder Coatings

A strategic choice
for production efficiency

In industrial contexts where energy and sustainability increasingly affect operating margins, optimizing the polymerization cycle represents a concrete lever for competitiveness. **RIPOL Series 6 polyester powder coatings** allow polymerization at **reduced temperatures starting from 160°C for smooth Low Cure finishes and from 150°C for Fast Cure fine textured finishes**, without compromising the mechanical, anti-corrosive, and aesthetic performance of traditional systems.

The reduction in temperature improves energy efficiency while maintaining adhesion, resistance, and surface uniformity.

The result is a more efficient, faster, and sustainable process, in full compliance with RIPOL quality standards.

TECHNOLOGICAL EVOLUTION. PRODUCTION CONTINUITY.

RIPOL Series 6 can be used both in Low Cure mode and at the standard temperature of 180°C. This allows you to take advantage of the system's greater reactivity, reducing substrate polymerization times without changing the line settings and maintaining full production stability.

Greater efficiency without compromising production balance.

RELIABILITY AND CONTROL IN EVERY PRODUCTION CYCLE

RIPOL Series 6 guarantees film uniformity and process stability even with mixed loads, differences in mass, or complex geometries, offering consistent results without compromising on finish quality.

ADVANTAGES FOR COATERS



ENERGY EFFICIENCY

Up to 20-25% reduction in consumption thanks to low polymerization temperature



INCREASED PRODUCTIVITY

Reduction of polymerization times: **up to 25%** more productivity without plant modifications



PROTECTION OF SENSITIVE MATERIALS

Ideal for **pre-assembled components and heat-sensitive substrates** that, for functional reasons, cannot be exposed to high temperatures



COMPATIBILITY WITH COMPLEX GEOMETRIES

Film uniformity even on mixed loads, variable thicknesses, and complex shapes



ADVANCED CROSSLINKING TECHNOLOGY

The LC Series uses highly reactive resins and optimized catalytic systems that allow complete crosslinking even at lower temperatures than traditional cycles.

DEGASSING DEFECT CONTROL – OGF

Porous substrates, such as hot-dip galvanized or castings, can release gases during curing, causing craters or micro-holes. OGF technology allows for controlled gas release, improving film relaxation and achieving more uniform surfaces even on complex parts, without increasing the curing temperature.

RECOMMENDED PRE-TREATMENTS

For all RIPOL Series 6 products, both Low Cure and Fast Cure, in order to obtain optimal performance, adequate pre-treatment is recommended depending on the substrate material.

- Steel: degreasing + phosphating + passivation + rinsing
- Aluminum: degreasing + chrome-free pretreatment
- Hot-dip galvanized: light sanding with a reduction of 5–10 µm

To further increase corrosion protection, we recommend applying RIPOL CORROCARE ABP primer.

CURING TIMES

	180° C	170° C	160° C	150° C
Smooth and Glossy LC	5-13 min.	6-15 min.	10-20 min.	-
Smooth and Matt LC	5-13 min.	6-15 min.	10-20 min.	-
Fine Textured FC	-	6-14 min.	8-18 min.	15-30 min.





RIPOL Series 6 Low Cure – SMOOTH (glossy and matt)

PROPERTY	VALUES	METHOD
Cross-cut adhesion	GT 0	EN ISO 2409
Erichsen cupping	≥ 5 mm	EN ISO 1520
Buchholz Hardness	≥ 80	EN ISO 2815
Direct Impact	≥ 2.5 Nm	EN ISO 6272
Cylindrical mandel	Pass 5 mm	EN ISO 1519
Condensation test	1000 h: no blistering no loss of gloss	EN ISO 6270-2
Salt spray	500 h: blistering and rust on carvings < 3mm	EN ISO 9227
Outdoor durability	Excellent color and gloss retention	

RIPOL Serie 6 Fast Cure – FINE TEXTURED

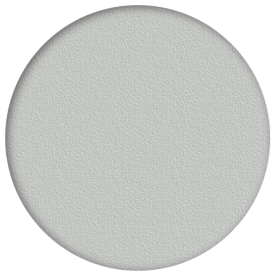
PROPERTY	VALUES	METHOD
Cross-cut adhesion	GT 0	EN ISO 2409
Erichsen cupping	≥ 5 mm (without detachment or cracking)	EN ISO 1520
Buchholz Hardness	≥ 80	EN ISO 2815
Direct Impact	≥ 2.5 Nm	EN ISO 6272
Cylindrical mandel	5 mm	EN ISO 6860
Condensation test	500 h (≤ 1mm)	EN ISO 6270
Salt spray	500 h (≤ 1mm)	EN ISO 9227
Q-UVA (340 Nm)	200 h (loss of gloss < 50%)	EN ISO 11507
Kesternich corrosion	> 24 cycles (≤ 1mm) – (0,2 l – SO ₂)	EN ISO 3231

RIPOL SERIES 6

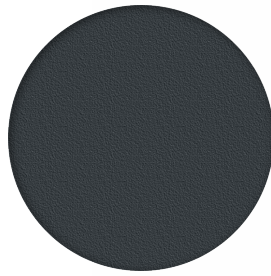
RIPOL Series 6 is available in over 30 colors, divided into Low Cure Smooth Glossy, Low Cure Smooth Matt, and Fast Cure Fine Textured. Each color can be identified by its product code and RAL reference, ensuring uniformity and aesthetic performance even at low oven temperatures.

FAST CURE FINE TEXTURED FINISHES

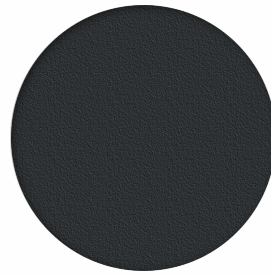
Fast Cure fine textured coatings maintain surface resistance. Ideal for components that require a technical, uniform, and durable finish even with rapid low-temperature polymerization cycles.



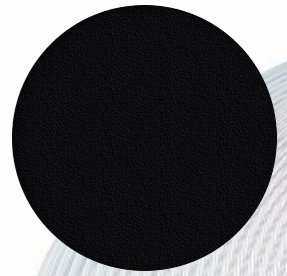
65RG1703592 - GREY RAL 7035



65RG1701692 - GREY RAL 7016



65RG1702192 - GREY RAL 7021



65RN1900592 - BLACK RAL 9005
64RN1900590

SMOOTH LOW CURE FINISHES

LC Smooth finishes offer high mechanical resistance, outdoor stability, and excellent color and gloss retention.

SMOOTH MATT

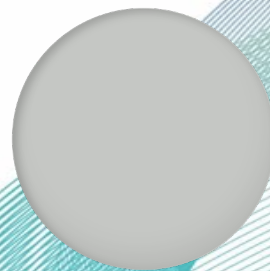
Matt effect and aesthetic stability, ideal for industrial applications.



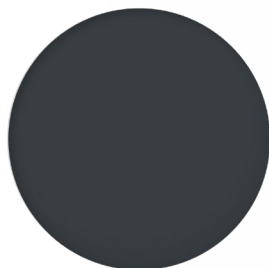
62LW1901672 - WHITE RAL 9016



62LW1901072 - WHITE RAL 9010



62LG1703572 - GREY RAL 7035



62LG1701672 - GREY RAL 7016



62LN1900572 - BLACK RAL 9005

SMOOTH GLOSSY

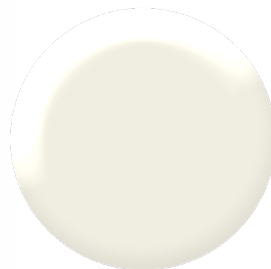
Uniform shine and optimal surface smoothness.



68LW1900272 - WHITE RAL 9002



68LW1900372 - WHITE RAL 9003



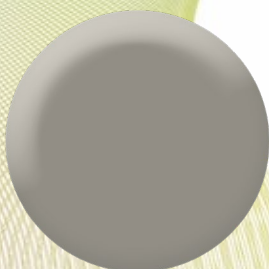
68LW1901072 - WHITE RAL 9010



68LW1901672 - WHITE RAL 9016



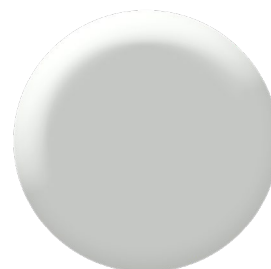
68LA1200472 - IVORY RAL 1013



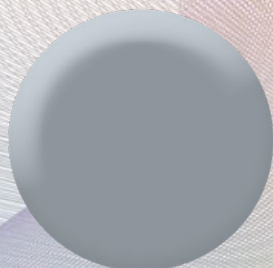
68LG1703072 - GREY RAL 7030



68LG1703272 - GREY RAL 7032



68LG1703572 - GREY RAL 7035



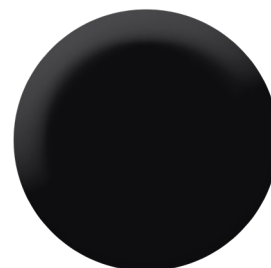
68LG1700172 - GREY RAL 7001



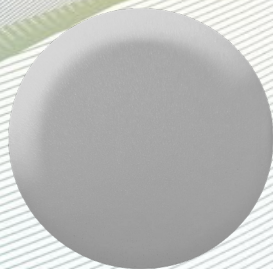
68LG1701672 - GREY RAL 7016



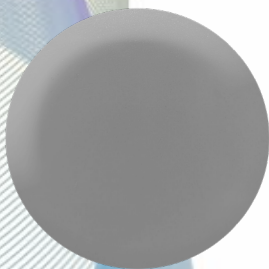
68LG1702172 - GREY RAL 7021



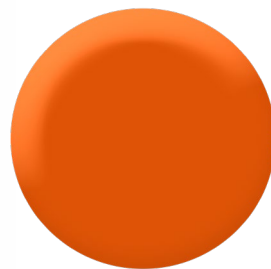
68LN1900572 - BLACK RAL 9005



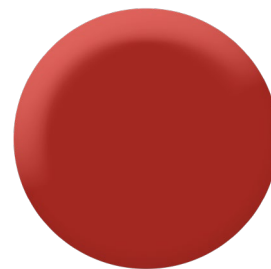
68LG2A25272 - GREY PERL 9006



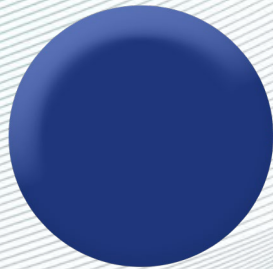
68LG2A97672 - GREY PERL 9007



68LA1200472 - ORANGE RAL 2004



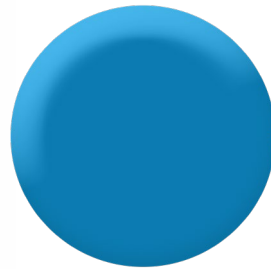
68LR1300072 - RED RAL 3000



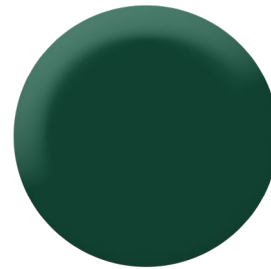
68LB1500272 - BLUE RAL 5002



68LB1501072 - BLUE RAL 5010



68LB1501572 - BLUE RAL 5015



68LV1600572 - GREEN RAL 6005

The finished color may vary from that shown on screen. Before applying the product, carefully read the technical and safety data sheets and contact your local RIPOL representative.



ENVIRONMENTALLY FRIENDLY

RIPOL powder coatings are eco-friendly, do not contain any solvents and no Volatile Organic Compounds (VOCs) are released into the air. Any powder overspray can be recycled with minimal wastage, and disposal is easy and safe. In addition, all our products are heavy metal-free.

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Our experienced staff can provide customized solutions to the most difficult application problems.

