



Rittal – Innovative surface protection



- Nanoceramic primed
- Special surface protection
- RiNano coating

Longer life, enhanced environment protection: The Rittal quality standard.



Electrophoretic dipcoat priming

As one of the leading manufacturers of high-quality enclosures, Rittal is always to be found one step ahead of the field when it comes to surface engineering. Innovative technologies guarantee maximum quality and optimum surface properties. For example: Electrophoretic dipcoat priming.

Ever better protection: Rittal nanoceramic surface priming.

As one of the world's leading enclosure manufacturers, Rittal is now further enhancing its international product range with a primer-coating technology guaranteeing optimum performance right down into the very last corner:

Nanotechnology.

Innovative pre-treatment techniques based on nanotechnology offer benefits which can only be described as eye-catching:

Higher quality

- Significantly improved corrosion protection from a closed and high-density inorganic coating into which nanoparticles have been incorporated
- Enlarged surface provides for optimum final-coating adhesion

Improved ecological compatibility

- Free from phosphates, solvents and toxic heavy metals
- Minimum energy input, as no heating is required for application

Longer lifetime

- Better long-term equipment protection
- Significantly reduced maintenance

The nanoceramic coating for the surfaces of our products replaces the conventional technology of iron phosphating.

As a genuine innovation in surface engineering, this technology is a perfect solution for the priming of steel, zinc and aluminium surfaces. It permits extremely even coatings and significantly improved corrosion protection for coated surfaces.



The further improved Rittal surface protection in detail:

1. Nanoceramic coating
2. Electrophoretic dipcoat priming
3. Powder coating

NEW

Tailored top performance: Rittal special surface treatment.

Are you looking for enclosures with an extremely resistant surface – for example for a tough industrial environment or special weather conditions? Rittal offers a matching solution to meet every specification, combining exceptionally effective surface protection with outstanding long-term durability.

Your benefit: The already acclaimed standard which Rittal offers in the field of surface protection is further optimised for the specific conditions faced by your installations. Even greater cost efficiency, optimum performance and a long-lasting result – Rittal is redefining quality.

Zinc phosphating

- The solution for heavy-duty outdoor enclosures
- Very high corrosion protection
- Practically insensitive to air humidity and temperature fluctuations
- Also ideally suited for extreme ambient conditions, e.g. exposure to seawater

Aluminisation

- The solution for enclosure fittings and other hardware
- High corrosion protection
- Minimised contact corrosion
- RoHS-compliant, chromium(VI)-free

Aluminium-zinc coating

- The solution for EMC protection in enclosures with uncoated interiors
- Outstanding corrosion protection
- Extremely resistant to ambient influences

This three-way surface treatment programme provides for optimum corrosion protection – Rittal products are thus more resistant to mineral oils, lubricants, machining emulsions, solvents and many other potentially damaging influences at the place of installation.



Extremely well protected: Outdoor enclosure with zinc phosphating



Ultimate corrosion protection: Aluminised fittings



Extremely resilient: Sheet steel enclosure with aluminium-zinc coating and powder finish

Nanotechnology made-to-measure: RiNano



RiNano for TopTherm climate control units

Rittal cooling units of the TopTherm series are often installed in extremely tough operating environments: Dry dust, oil-laden air and other aggressive ambient influences mean time-consuming and expensive cleaning and maintenance. The water, dirt and oil-repellent properties of the innovative RiNano coating applied to the heat exchangers ensures a constant cooling performance over a much longer period – which quickly adds up to significant time and cost savings.



RiNano for ITS terminals – Anti-fingerprint

Effective protection against fingerprints on metal surfaces, without actually modifying the metal surface itself – no problem, thanks to ultrafine nanocomposite materials. Fingerprints are much less conspicuous and can be wiped away more easily.



RiNano for stainless steel enclosures – Anti-microbial

The refinement for hygienic surfaces: Thanks to the special silver coating, microbes (bacteria, fungi and viruses) are inhibited in their growth. When the surface is cleaned, they are simply flushed away.



RiNano for CS outdoor enclosures – Anti-graffiti

Thanks to the special nanocoating, the “artists” with their spray cans are no longer able to make a lasting impression: The spray paint can be washed off more easily with a pressure-jet cleaner.