

Coating Service SolutionsMetco PLUS

Coating solutions that make a difference. New surface properties are achieved combining a thermal spray coating PLUS an organic dispersion

Thermal spray coatings are a proven and successful measure against wear in various industrial applications. Often, however, additional properties are need to optimize the surface for the application.

In response, Oerlikon Metco has developed the combined coating system, MetcoTM PLUS, which offers the following enhanced surface properties:

- Improved sliding behavior
- Soil repellent surface
- Process substances to not adhere to the surface
- Emergency dry running conditions
- Antistatic surface for ceramic coatings
- High dielectric strength
- Protection against substrate corrosion
- Superior traction

Metco PLUS coatings are thermally sprayed, wear resistant coatings that are additionally treated with innovative organic dispersions, such as silicones, fluoropolymers or resins.

The optimized properties of Metco PLUS coatings are normally achieved by heat treatment, which cross-links the polymers and hardens resins, followed by a surface post treatment specifically adapted to the desired functional characteristics.



Rolls for textile refinement



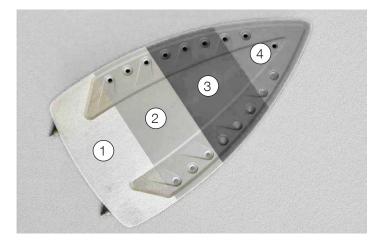
Microscope tables



Heating Plates for laboratory and industrial use

Metco PLUS Coating Overview

| Coating type | Properties and attributes | Application examples |
|---------------|--|---|
| Metco PLUS 10 | Wear-resistant, non-stick coating Wear resistant ceramic with an abrasion-resistant PTFE non-stick coating | Mixers, scrapersBaking and cooking utensilsForming plates for plastics mats |
| Metco PLUS 20 | Non-wetting surfaces Thermal spray coating post-treated with silicone | Rollers used in adhesive tapes and film productionRollers used in printers and copiers |
| Metco PLUS 30 | Lubricious coatings Wear resistant ceramic with superior sliding properties | ■ Guides for conveyor and packing equipment ■ Guide plate in printing presses |
| Metco PLUS 40 | High frictional coefficient | ■ Grippers ■ Traction rollers |
| Metco PLUS 50 | Sealed, corrosion-resistant coatings Ceramic coatings post-treated with a deep penetrating sealer that prevents corrosion of the substrate | Microscope tablesTextile machinery partsLaboratory heating plates |
| Metco PLUS 60 | Electrical isolation Increase s the dielectric strength of ceramic coatings, particularly for applications in humid conditions | Gas fittings Corona rollers |
| Metco PLUS 70 | Electrically conductive ceramic coatings Prevent electrostatic build up on ceramic-coated surfaces | ■ Printing rollers ■ Transport rollers |





- Substrate material
 Grit-blasted substrate material
 Wear-resistant coating
- 4. Organic top coat



Cross-linking of polymer via post-coat heat treatment





