



ROLLER COVERING FOR THE METAL INDUSTRY

COLOUR & CHEMICAL COATING

Coil coating applications have gained more and more importance over the years due to the evolution towards value added strip products (steel, aluminium or other non-ferrous materials).

Furthermore, the use of coating machines has become the preferential technique to apply “chemical” coatings, such as passivation and pre-treatment products or water-based coatings.

YOUR REQUIREMENTS

- Constant quality
- Very high purity and homogeneity
- Chemical resistance
- Cut-in resistance
- Surface properties for improved transfer and the application of the coating
- Easy to grind

The heart of the coil coating machine, used to apply liquid coatings, consists of the applicator roller, which is elastomer covered. This roller has a crucial impact on the quality of the coated product.

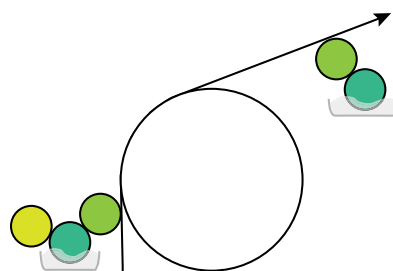
The Hannecard Group has become a specialist throughout Europe and even worldwide, thanks to the development of a superior covering concept,

including technologies and compounds that assure an important improvement of the coil coating process.

Hannecard also provides long lasting solutions for the pick-up rollers, based on our unique thermal spray technology.

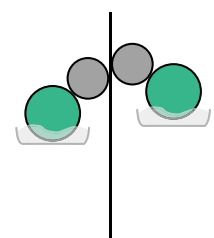
THE ADVANTAGES OF MONKAL®

- Unique casting technology in vertical position
- Double filtering
- Very high purity
- Special formulations for colour coating and chemcoating
- Silky surface, easy to grind (Ra roughness values between 0,4 and 3,5 µ)
- Surface tension properties that improve the spreading and transfer of the coating
- Available hardness: 15 - 70 shore A



Double-sided colour coating

- metering roll (MET-N1)
- applicator roll (MET-N1)
- pick-up roll (MET-N5)



Double-sided chemical coating

- chemical coater roll (MET-N2)
- pick-up roll (MET-N6)

Solutions for chemical coating (surface treatment)

Solution	Type	Characteristics
Monkal-4®	Beige 40 - 65 Shore A Polyurethane	<ul style="list-style-type: none"> • Opaque polyurethane • Best surface energy (wetting) properties in the market • Good chemical stability to most chemcoating products up to 40 °C
Monkal-5®	Green 15 - 70 Shore A Polyurethane	<ul style="list-style-type: none"> • Transparent polyurethane • Extended hardness range • Improved abrasion resistance • Good chemical stability • No pick-up of solids, low contamination, easy to clean
MultiCoat-SB	Green 35 - 75 Shore A Rubber	<ul style="list-style-type: none"> • Very high chemical resistance to (acid) surface treatment products up to 80 °C • Medium abrasion resistance
MultiCoat-XP	Green 50 - 60 Shore A Rubber	<ul style="list-style-type: none"> • Very high chemical resistance to (acid) surface treatment products up to 60 °C • Very high resistance to abrasion and to edge cutting. Maximum lifetime

Solutions for colour coating, organic coating and solvent based varnishing

Solution	Type	Characteristics	Applications
Monkal-4®	Beige 40 - 65 Shore A Polyurethane	<ul style="list-style-type: none"> • Opaque polyurethane • Vertical casting • Outstanding wettability 	Solvent and water based varnishing and coating Specifically recommended for coating on aluminium
Monkal-5®	Green 15 - 70 Shore A Polyurethane	<ul style="list-style-type: none"> • Transparent polyurethane • Vertical casting • Improved abrasion resistance 	Colour coating and varnishing - Specifically recommended for high-speed coating
Monkal-5 HP®	Blue 55 Shore A Polyurethane	<ul style="list-style-type: none"> • Transparent polyurethane • Vertical casting • Outstanding abrasion and cut-in resistance 	Recommended for long production runs without changing the applicator roller - Extended lifetime
Monkal-5 AS®	Yellow 50 - 55 - 60 Shore A Polyurethane	<ul style="list-style-type: none"> • Transparent polyurethane • Vertical casting • Antistatic 	Solvent-based coating with fire risk
MultiCoat-SB	Green 35 - 75 Shore A Rubber	<ul style="list-style-type: none"> • High purity and homogeneity • Excellent wettability • Excellent resistance to acid solutions • Excellent resistance to polar solvents 	Varnishing and colour coating (water and solvent based)
Hannespray-CR	Chromium Carbide in HVOF thermal spray	<ul style="list-style-type: none"> • Very high density and hardness • Extended lifetime compared to chrome plating • Thickness 75 – 300 µ • Possible to apply on stainless steel roller cores 	Hard cover for pick-up rollers

Solutions for the coating on transformer, dynamo and electrical steel

For the production of transformer steel, specific spray-coating systems are used to apply a high quantity of magnesium oxide and inorganic insulation layers.

Hannecard not only offers unique covers for these applications, but also the different micro-groove patterns.

Solution	Type	Characteristics	Applications
MultiCoat-SB	Green 35 - 75 Shore A Rubber	<ul style="list-style-type: none"> • Cost efficient solution • Very high chemical stability to all water and solvent based products 	Solvent and water based varnishing and coating Specifically recommended for coating on aluminium
MultiCoat-ES	Blue 60 Shore A Special rubber	<ul style="list-style-type: none"> • Very high surface energy MgO and insulation coating • Allows coating without micro-grooves • Very high abrasion resistance • improved lifetime 	MgO and insulation coating
Monkal-4[®]	Sand 40 - 65 Shore A Polyurethane	<ul style="list-style-type: none"> • Opaque polyurethane • Best surface energy (wetting) properties in the market • Very good chemical stability 	Organic and water based insulation varnish
Monkal-5[®]	Green 15 - 70 Shore A Polyurethane	<ul style="list-style-type: none"> • Transparent polyurethane • Extended hardness range • Improved abrasion resistance • Good chemical stability 	Organic and water based insulation varnish

MORE INFORMATION?

For more information, please contact your local Hannecard partner or visit our website at: www.hannecard.com