

Printing and foil industry

Coating of rollers and rolls as a core competence

TOPOCROM® coating in cylindrical reactors is very suitable for the surface coating of rollers and rolls. According to the surface requirements these important parts of printing machines (offset, gravure printing, digital printing) get the desired properties:

- Transport of fluids, scooping ability of the roll surface
- Water repellent surface
- High resistance to abrasion, mechanical and chemical
- Optimized resistance to corrosion due to special layer systems



Transport of fluids in printing machines

The structured TOPOCROM® surface allows a defined application and transport of fluids.

Long-standing experience in the printing industry

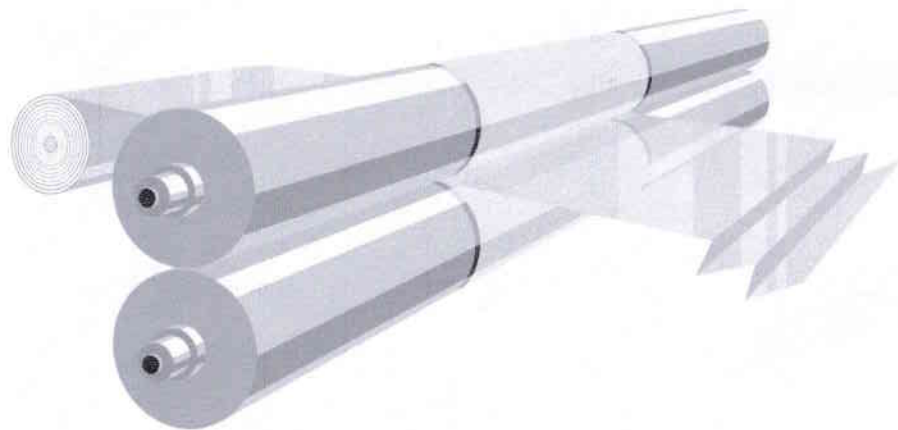
The resistance of the coating against aggressive solutions and cleaning agents has been proved since many years. Leading, internationally active manufacturers use TOPOCROM® coated rolls for their printing machines.



Metal sheet industry, feeding machines

Roll surfaces with grip for trouble-free processes in feeding and straightening machines

TOPOCROM® coated rolls ensure ideal feeding behaviour when transporting sheet metal belts treated with oil or dry-film lubricant. Furthermore the life time of the rolls is significantly increased. For feeding intensely lubricated belts or sheets the TOPOCROM® coating offers the necessary friction.



Important advantages

- Optimum grip
- Decrease of slip
- One type of roll for the processing of different sheet surfaces
- Excellent wear resistance and longer service life
- Load capacity to bending and torsion
- Gentle treatment of the material

Applicability

The use for processing the following types of metal sheet is proved:

- Galvanized sheet
- Oiled sheet
- Aluminium
- Stainless steel
- Painted material
- Sheet with dry-film lubricant
- Sheet with bonazink-coating



Application in steel works

Texturing of metal sheet

In the automotive industry car body panels textured by TOPOCROM® coated skin pass rolls are increasingly used. These metal sheet surfaces considerably ameliorate the forming behaviour and form an ideal basis for modern painting without filler. TOPOCROM® is deposited in the closed reactor system as described before. Due to the high transport weight of such rolls steel works operate their own plating plant. If you are interested in installing an own TOPOCROM® plating plant please contact us.

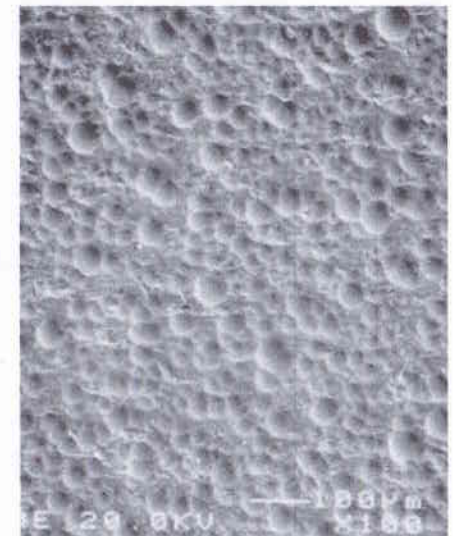
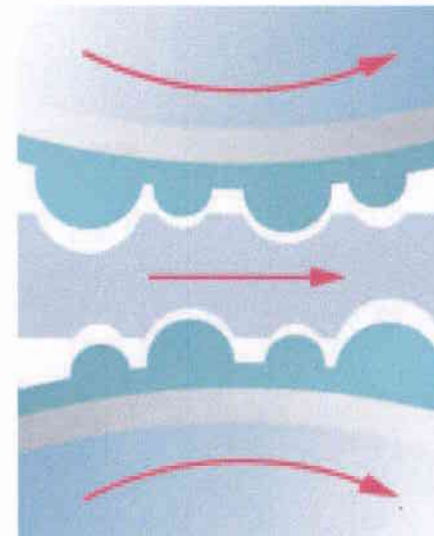


Important advantages

The TOPOCROM® textured metal sheet surface shows stochastically distributed cavities transmitted by the skin pass roll. This sheet surface is especially characterized by variable surface topographies. The graphic illustration on the left side below shows the process of texturing. The microscopic picture on the right side shows the surface of a skin passed metal sheet. Test reports of the steel and automotive industry are available on demand.

Advantages of a TOPOCROM® textured metal sheet:

- Long service life of work rolls
- High variability of the metal sheet surface structure
- Excellent painting and forming behaviour



Increase industrial productivity by TOPOCROM® surface coating

topocrom carbonprocessing

carbonprocessing

Surface for process stability in guiding filaments

Industries

- Carbon industry
- Textile machinery
- Manufacturing of non-wovens
- Manufacturing of foils
- Chemical fibres

Work pieces

- Eyelets
- Bobbins
- Funnels
- Deflection elements
- Bracing elements
- Guiding elements
- Rolls
- Scoop rolls

topocrom easyject

easyject

Surface for excellent ejection

Industries

- Plastic injection tools
- Extrusion tools

Work pieces

- Cores
- Ejectors
- Moulds
- Two-component tools
- Mandrels
- Extrusion dies
- Screws
- Forming tools
- Smoothing rolls
- Calender rolls

topocrom rollstructuring

rollstructuring

Surface for selective abilities on rolls

Industries

- Printing machines
- Machines for sheet metal forming

Work pieces

- Feed rolls
- Straightening rolls
- Wheels
- Skin pass rolls
- Distributing rollers
- Printing rolls
- Deflection rolls
- Laminating rolls
- Embossing rolls

topocrom highresistance

highresistance

Surface for highest strains and avoiding abrasion

Industries

- Concrete pumps
- Waste disposal
- Steel works
- Hydraulic industry

Work pieces

- Casting moulds
- Transport pipes for concrete and high consistencies
- Hydraulic cylinders
- Pull rods
- Hydraulic pipes
- Forming tools
- Pipes for waste disposal