

The group PMG Steel Industries and its companies,  
specialised in the manufacturing  
of rolls and surface coatings, has developed this new technology.

# **HARD COAT**

The solution to replace  
**HARD CHROME PLATING**  
in compliance  
with REACH Regulation



**POLIMIROIR well known for its competence in the design and manufacture of industrial rolls, and its subsidiaries OUEST COATING and WUJIANG POLIMIROIR, have combined their know-how in order to achieve this global solution: a very efficient mechanical construction of roll and its adapted coating "Hard Coat".**



Chill Roll with hard coat



Calender Roll with hard coat poliglossy finish



Hard coat on stretching Roll



Chill Roll with hard coat and LCT system



Chill Roll with hard coat for BSF



Chill Roll of Ø 2 300 mm with rough hard coat

#### • Applications:

Hard Coat is already applied since several years on rolls

- for optical film production lines
- for Battery Separator Film lines (BSF)

Due to environmental obligations and the technical benefits of this Hard Coat, more and more chrome plated rolls are being upgraded to Hard Coated rolls.

#### • Main advantages:

Hardness 30 to 40 % higher than hard chrome plating.

High chemical stability, superior resistance to chloride attacks compared to hard chrome plating.

Hard coat finish obtained after grinding /polishing close to hard chrome plating.

#### • Capacities:

Diameter: up to 2 300 mm

Length: up to 6 m

Weight: up to 7 000 kg

**The group continues to develop and invest in this technology and will rapidly evolve these capacities.**

[www.pmg-si.com](http://www.pmg-si.com)



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