

Agenda:

- 1) ACMOS company profile
- 2) ACMOS for composites
- Semipermanent ACMOScoat hybrid systems in the rotorblade production



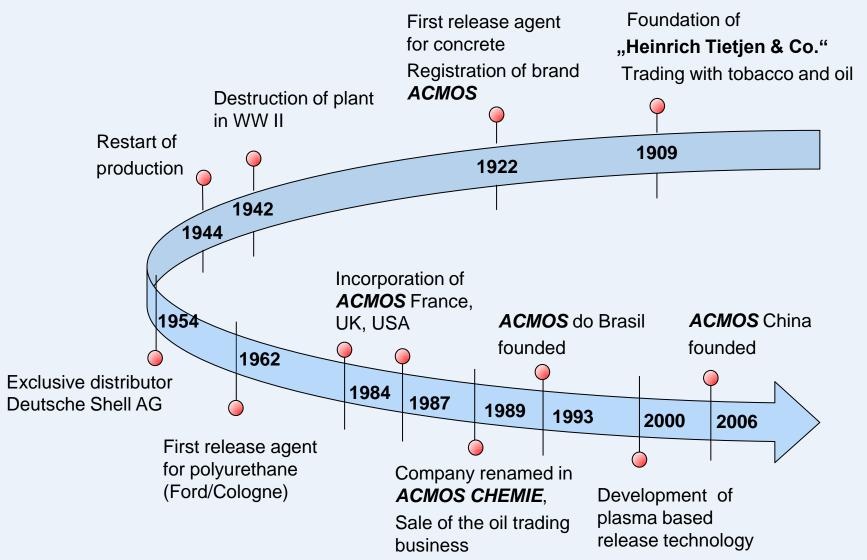
Company Profile

ACMOS CHEMIE KG

2012

History





ACMOS today



- Business focus on release agents
- > Technological leader in core markets
- State of the art production technology
- QM and QA guarantee optimum performance
- Authorised Economic Operator (AEO)
- Global Network (sales and technical service)
- Owned and managed by the founding family (4th generation)

ACMOS today



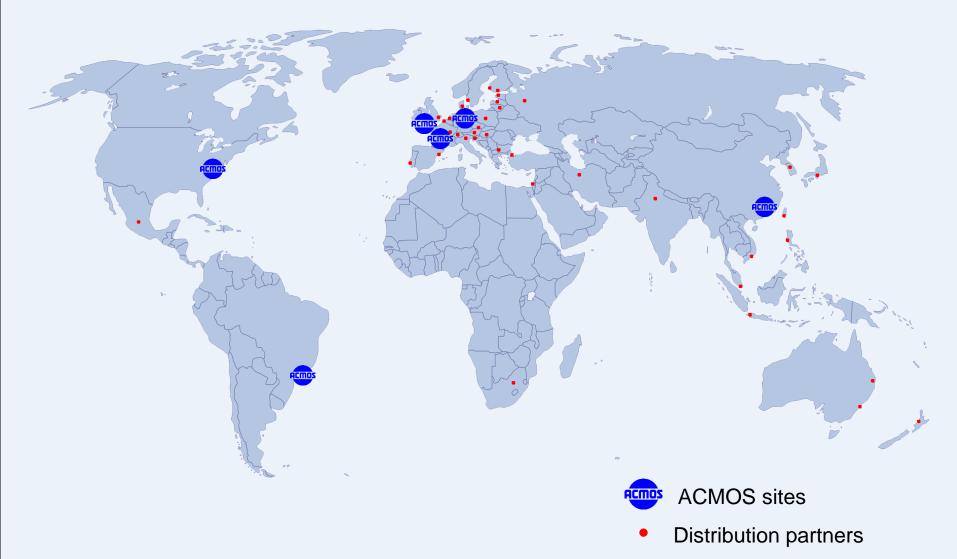
Key figures

- > 150 employees
- > 1,200 products
- > 2,000 formulations
- > 60% export rate

- > 1,700 customers
- > 10,000 t/y production capacity
- > 600 raw materials
- > 99.5% total satisfaction

Global





Release Agents



Requirements

Minimising risk of adhesion between product and mould/tool

Quality of moulded part

Solutions

Formulations of surfactants (e.g. waxes, silicones) in water-based or solvent-based carrier medium

Markets



Plastics Processing



- Polyurethane
- Polyester resin
- Epoxy resin
- Phenolic
- Thermoplastic
- Rubber

Woodworking Ind.



- pressing
- planing
- sawing
- grinding

Foundry Industry



Sand casting

- Machine moulding
- Hand-moulding

Glass Industry



- Hollow glassware
- Pressed glass
- Flat glass bending

Metalworking



- machining
- grinding
- profiling

Innovation





- More than 25% of all employees in R & D
- Continuous product improvement
- State of the art analytical and laboratory equipment
- More than 400 new formulations every year
- Intense cooperation with independent research institutes

Contact



ACMOS simplifies the job in harmony with production and environment



ACMOS DO BRASIL LTDA.
Rodovia Fernao Dias, s/n
Distrito Industrial
37655-000 Itapeva-MG / BRAZIL

Mr. Jairo Machado Maluf

Tel: 0055-35-3434 1902

Fax: 0055-35-3434 1902

acmos@acmos.com.br

www.acmos.com.br

→GEAR UP

Release performance

SPEED UP

Manufacturing process

▶CLEAR UP

Production costs



Increased performance generates time



Time = Money



- Semipermanent options:
- -Solventbased Sealer & Release
- -Solventbased Sealer & Waterbased Release
- Further Portfolio:
- -Internal Release Agents
- -External Release Liquids (Water & Solvent)
- -External Release Pastes (also with Carnauba)
- -PVA-Lacquers & Primer



Covering Manufacturing technology:

- -SMC & BMC
- -RTM (Hi & Lo)
- -Vacuum Infusion
- -Manual Lay-Up / Spray-Up
- -Filament Winding
- -Pultrusion
- -Hot Pressing / Pre-Pregging













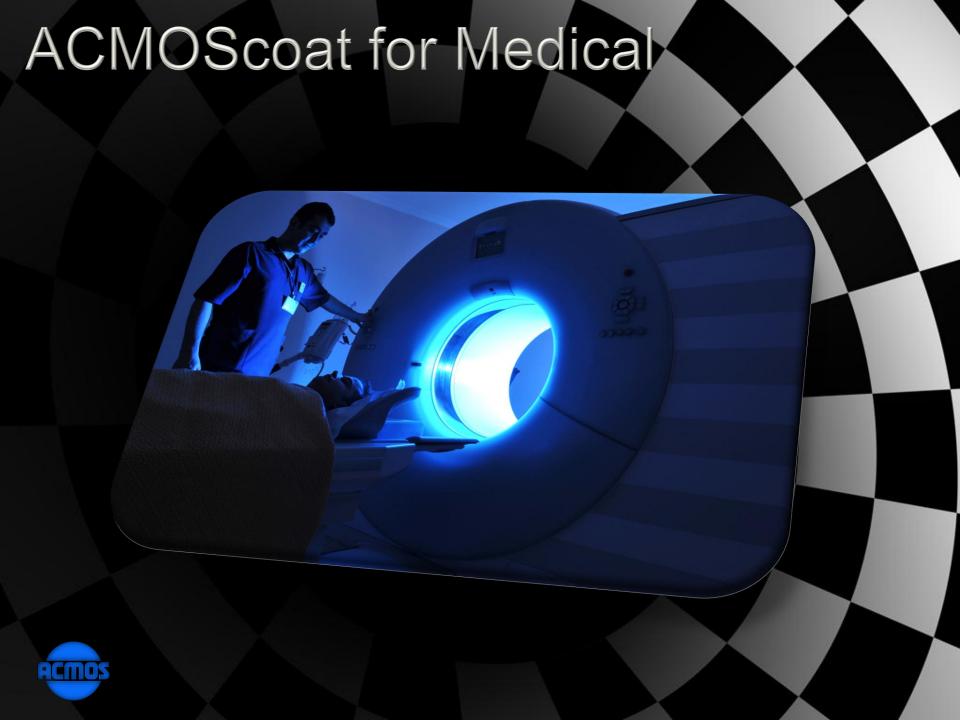


ACMOScoat for Construction

ACMOScoat for Recreational







ACMOScoat for almost emission-free rotorblade making





SGL-Rotec's basic requirements:

- -Low or no emissions by release system
- -Operator and environmental friendly
- -One week production without touch-up
- -Full mould cleaning after 6 months
- -Very good tackytape adherence
- -Good wetting of PUR process gelcoats
- -Easy removal of residues before painting

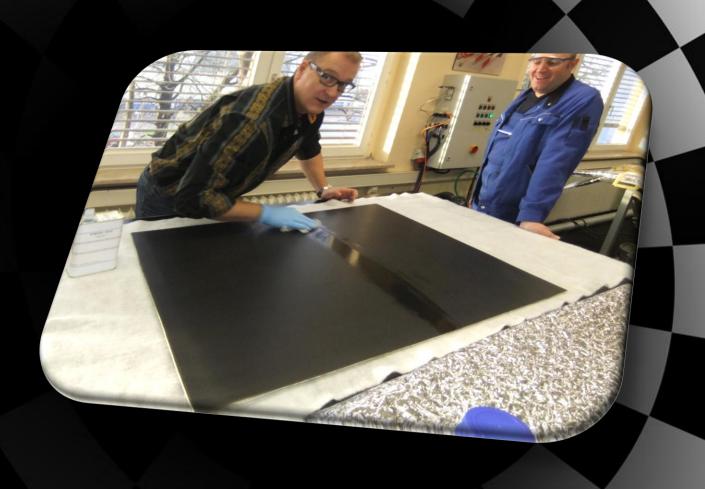


ACMOScoat trial at SGL-Rotec I.





ACMOScoat trial at SGL-Rotec II.

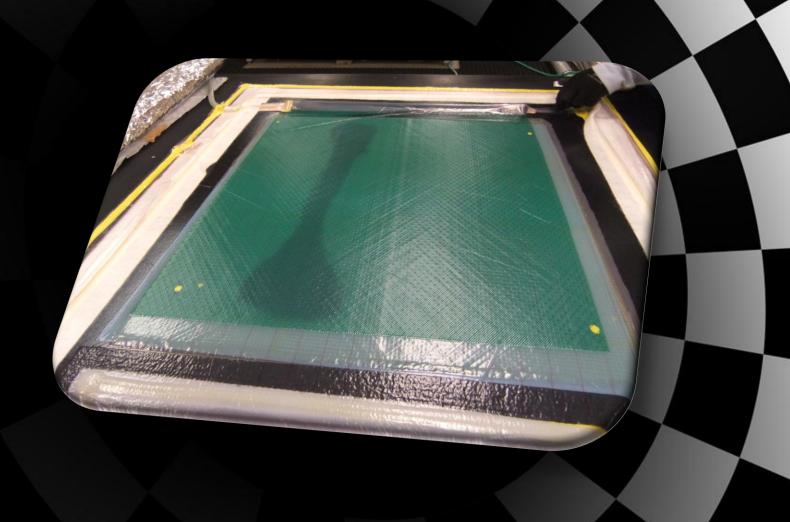




ACMOScoat trial at SGL-Rotec III.

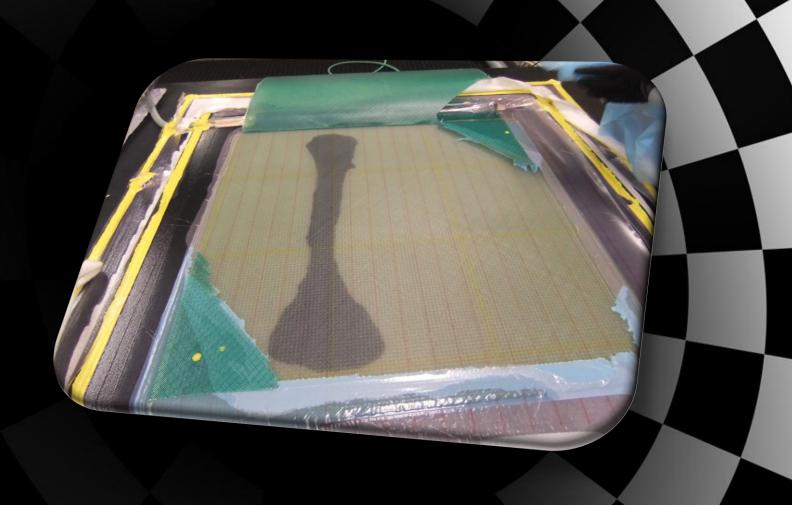


ACMOScoat trial at SGL-Rotec IV.





ACMOScoat trial at SGL-Rotec V.



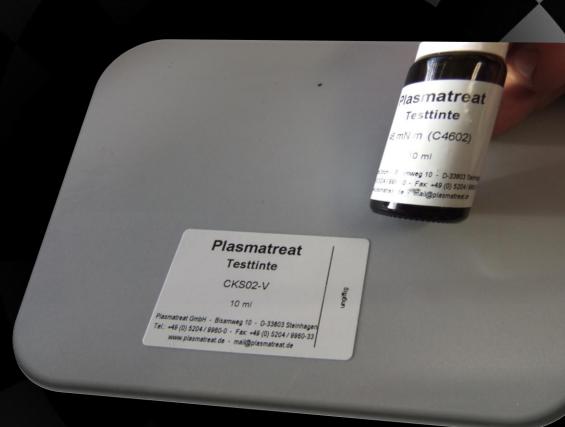


ACMOScoat trial at SGL-Rotec VI





ACMOScoat trial at SGL-Rotec VIII.

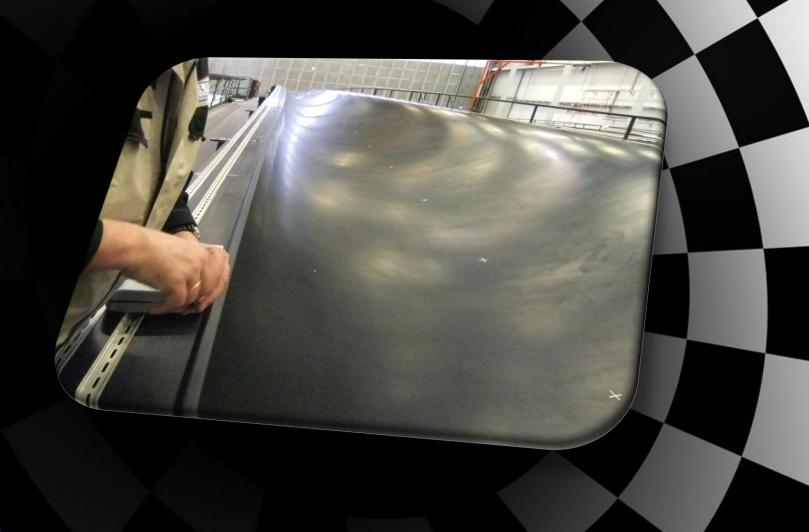




ACMOScoat trial at SGL-Rotec VIN.



ACMOScoat trial at SGL-Rotec IX.





ACMOScoat achievements

- -Low or no emissions by release system V
- -Operator and environmental friendly V
- -One week production without touch-up V
- -Full mould cleaning after 6 months V
- -Very good tackytape adherence V
- -Good wetting of PUR process gelcoats V
- -Easy removal of residues before painting V



Conlusions hybrid release system

- -Easy application with SprayMob
- -Only 0,4 ml VOC (Sealer) per m² rotorblade
- -Only 2,0 ml waterbased release per m² r.
- -Approx. use of 10 ml per m² and layer
- -Rotorblade surface can be cleaned by sanding and / or alkalyne powerwash
- -Positive testing with 36 40 Dyne test ink



Many thanks for your attention!!!



