



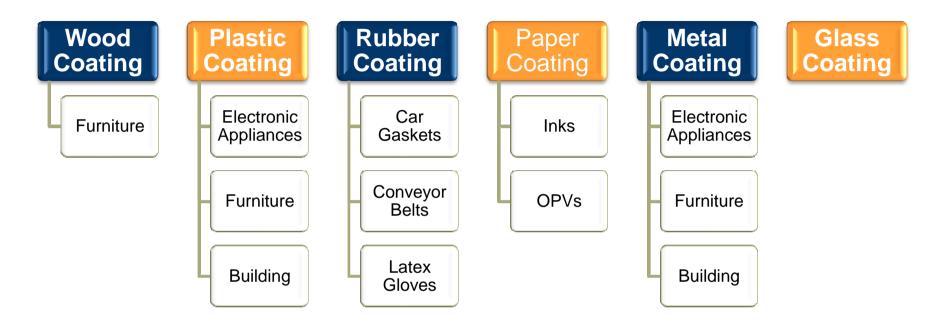
# ORGASOL® Ultra-Fine Powders

# **Industrial Coatings**



# A large range of applications





- All kind of formulations
  - Water based
  - Solvent based (Epoxy, PU, Acrylic)
  - UV curing
- Very different curing temperature (low to high)



# Orgasol® Benefits in Industrial Coatings





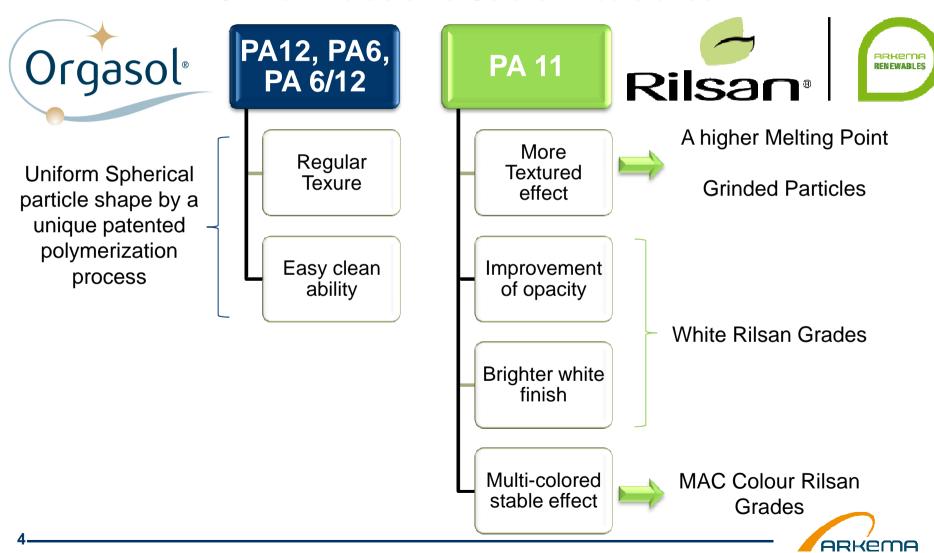


## **Arkema Polyamide Products**



The world is our inspiration

#### Similar Abrasion & Scratch Resistance





# INDUSTRIAL COATINGS: EXAMPLES



# **Wood Coating**



Requirements in terms of

Abrasion & Scratch Resistance

**Gloss Control** 

**Silky Texture** 



# **Wood Coating - Abrasion Resistance**

**Abrasion Resistance** 

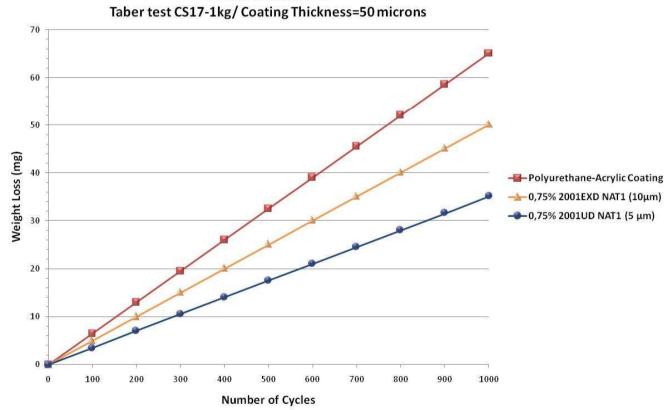


### Formulation:

- WB Polyurethane Acrylic Dispersion
- Orgasol® at 5 and 10 microns

### Coating Thickness:

50 microns





# **Plastic Coating**



# Abrasion & Scratch Resistance for mate finishes in Low Temperature Curing Systems

Recommended Grades: 2001 UD NAT1 / 2001 EXD NAT1 (1-3%)

- A large range of formulations
  - Acrylic, PU, PE
  - Solvent based / Water based/ UV curing
- Average Coating Thickness: 10-20 microns
- Final Applications
  - PVC Profile
  - Laptop Cell phones
  - TV/Stereo Appliances







### **Inks & OverPrint Varnishes**



## **Improvement of Surface Properties**

Recommended Grades: 2001 UD NAT1 / 2 (for food contact)

- Focus on:
  - Gloss Control
  - Slip & Lubricity (Anti-blocking effect, Drop of friction coefficient)
    - Good synergy with PE waxes for further increase of COF
  - Scratch & rub resistance
  - Texture
- Average Coating Thickness: 10 microns
- Final Applications
  - Packaging for cosmetics
  - Magazines
  - Films

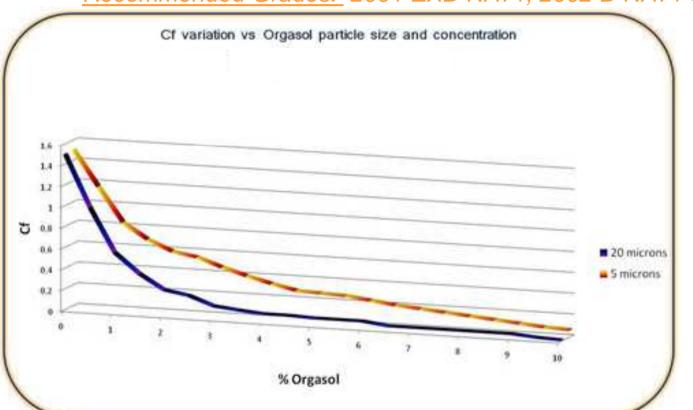


# **Rubber Coating**



## **Friction Coefficient Control (COF)**

Recommended Grades: 2001 EXD NAT1, 2002 D NAT1 & 1002D NAT1



### Formulation:

2K Polyurethane WB Dispersion

Coating
Thickness:
20 microns





# **Glass Coating**



### **Gloss Control**

Recommended Grades: 2001 UD NAT1 / 2 (for food contact)

- Solvent based epoxy resins
- Possible use of Orgasol® grades at 5, 10, 20, 30 microns
- Average Coating Thickness: 15 microns



Gloss decreases with the Average Particle Size of Orgasol®





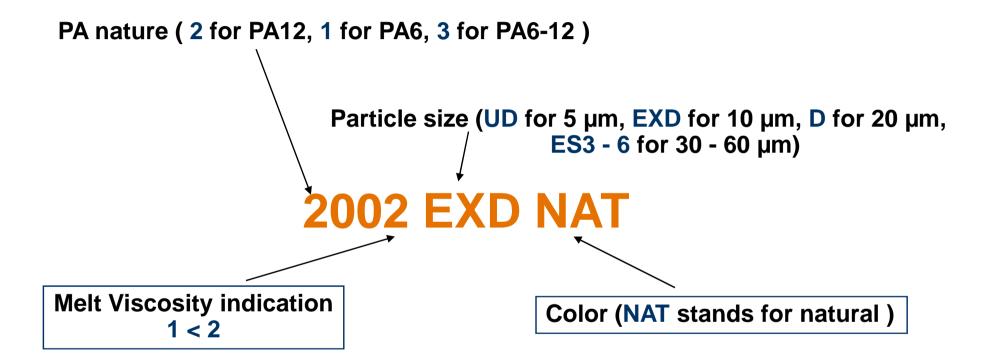


# ORGASOL® ANNEX



# **Orgasol®: Nomenclature**









The information contained in this document is based on trials carried out by our Research Centres and date selected from the literature, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specifications define the limit of our commitment.

No liability whatsoever can be accepted by Arkema with regard to the handling, processing or use of the product or products concerned which must in all cases be employed in accordance with all relevant laws and/or regulations in force in the country or countries concerned.



420, rue d'Estienne d'Orves 92700 Colombes - France

Tél.: 33 (0)1 49 00 80 80 Fax: 33 (0)1 49 00 83 96

www.arkema.com

ARKEMA Société anonyme au capital de 68 685 730 euros - 445 074 685 RCS Nanterre – Version 1.0 - 03 2009

www.orgasolpowders.com

