

Overview of coatings and functions

Plastics, paper, textile, leather

| | plastics | acrylic | PET-film | TCO coated glasses | paper | textile mat. | leather |
|--|----------------|----------------|----------|--------------------|-------|--------------|---------|
| anti-fingerprint | | | X | | | | |
| anti-graffiti | X | | | | | | |
| anti-scratch/abrasion-proof | X | X | X | | X | X | X |
| anti-microbial | X | | X | | X | X | X |
| anti-reflex | | X | | X ² | | | |
| anti-static | X | | X | | | X | |
| anti-dust | X ¹ | X ¹ | X | | | | |
| anti-drop | X | | | | | | |
| barrier 1 ³ | X | | X | | X | | |
| barrier 2 ⁴ | X | | | | X | | |
| easy-to-clean | X | X | X | | | | X |
| electrochromic coatings | | | | X | | | |
| ORMOCER® coatings in color | | | | | | | |
| High-temperature coatings ⁵ | | | | | | (x) | |
| hydrophilic | X | X | X | X ² | | | |
| hydrophobic | X | X | X | | X | X | X |
| Corrosion protection with chromium VI substitute | | | | | | | |
| Corrosion protections above 600°/700° C | | | | | | | |
| photocatalytic coatings | X | X | | | | | |

¹ with limitations due to low abrasion resistance

² optical adaption to TCO coatings required

³ to gases, fumes, plasticizer, aromatic substances and monomers that migrate

⁴ to oil and fat

⁵ can be coated in dependence of substrate's temperature resistance

Special coatings:

1. dust-repellant layers as spray-coating without high temperature hardening eg. for pv applications
2. anti-soot coatings for aluminium recuperator in condensing boilers
3. (colored) layers for process control and as process auxiliary agent during production
4. protective layers for glass and optical polymer fibers

All coatings are tin table.

All ORMOCER® coatings are more scratch-resistant than polymer-organic functional coatings.

All material systems can be produced in license

Coatings and functions

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Metal and glass

| | high grade steel | steel | alu | copper | glass | TCO coated glass |
|--|------------------|-------|-----|--------|-------|------------------|
| anti-fingerprint | x | | | | x | |
| anti-graffiti | x | | | | x | |
| anti-scratch/abrasion-proof | x | | x | x | x | |
| anti-microbial | | | | | x | |
| anti-reflex | | | | | x | x ² |
| anti-static | | | | | | |
| anti-dust | x | x | x | x | x | |
| anti-drop | x | x | x | | x | |
| barrier 1 ³ | | | | | | |
| barrier 2 ⁴ | | | | | | |
| easy-to-clean | x | x | x | x | x | |
| electrochromic coatings | | | | | | x |
| ORMOCER® coatings in color | x | x | x | | x | |
| High-temperature coatings ⁵ | x | x | (x) | (x) | (x) | |
| hydrophilic | | | | | x | x ² |
| hydrophobic | x | x | x | x | x | |
| Corrosion protection with chromium VI substitute | | x | x | x | | |
| Corrosion protections above 600°/700° C | | x | | | | |
| photocatalytic coatings | | x | | | x | |

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