



COATINGS



CERAMIC
SOL-GEL COATINGS



SOL-GEL CERAMIC COATINGS



CERALON® are inorganic-organic hybrid coatings based on sol-gel chemistry.

Already at 200 °C the coatings are converted into vitreous structures with a high degree of hardness and scratch resistance. The coatings show very high temperature

resistance up to 400 °C without losing the easy cleanability. The coating systems show very good adhesion on various kind of sandblasted substrates like aluminum, stainless steel, ceramics, brass and zinc-plated or aluminized steel. Therefore these coatings offer a wide spectrum of applications.



CERALON® Advanced – One or two-coat system, which shows enhanced abrasion resistance in comparison to CERALON®. By meeting the specified dry-film thickness the coating will even achieve a “good” in the abrasion test with steel balls and corundum. The colour choice is yet limited to several colours only.



Cookware

CERALON® Cookware – Two-coat system with very high hardness, which combines very high temperature resistance with good non-stick and extraordinary easy clean properties. CERALON® Cookware does not generate any dangerous thermal decomposition products and due to lower curing temperatures the energy consumption during the manufacturing process is lower than for conventional coatings.



Bakeware

CERALON® Bakeware – One or two-coat system, which shows very good release, particularly against sweet dough. CERALON® Bakeware shows also good resistance to sour dough and has high staining resistance in roasting applications. CERALON® Bakeware combines excellent easy clean properties and high abrasion resistances.

Recommended Substrates (sandblasted)				Performances			
Aluminium	Zinc-plated or aluminized steel	Stainless steel	Ceramics	Number of layers	Coating thickness	Easy clean	Abrasion resistance
■		■		1	40 - 45 µm	***	***
				or		***	***
				2	45 - 50 µm	****	****
■		■	■	2	35 - 40 µm	****	****
■	■	■	■	1	25 - 30 µm	***	**
				or			
				2	35 - 40 µm	****	****

■ highly recommended ■ conditional recommended

ILAG coatings applied in the right way can be used for food contact materials according to the European legislation.



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