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PRODUCT DATA SHEET

PRODUCT: **TOPSHIELD SM**
High-performances heat curing one component coating

CODE: **COMP. A C3760X0000 TOPSHIELD SM**
COMP. B -

PRODUCT DESCRIPTION: Topshield SM is a high performance coating with strong resistance to atmospheric agents. It has an excellent mechanical resistance to scratching and abrasion. Furthermore, thanks to the presence of PTFE, the product has anti-friction characteristics. It guarantees good chemical resistance to quite aggressive substances. The product can turn quite yellow if cross-linked at temperatures above 190°C.

SURFACE PREPARATION: TOPSHIELD SM can adhere to all metallic substrates, on chemical conversion coatings (phosphate conversions) and on anodized aluminium. To bring the performance level to the top it is suggested to accurately sandblast the surface at low incision profile ($Ra < 5\mu m$) by using 80-100 mesh corundum. The product must be applied strictly on dry surfaces, clean, perfectly free of oil, grease, dust, moisture or other contaminants.

APPLICATION METHODS: Spray, brush or roll. Avoid placing thicknesses higher than recommended.

APPLICATION INSTRUCTIONS:	CONVENTIONAL SPRAY LOW PRESSURE PUMP		AIRLESS AIRMIX	
	Nozzle diameter (mm)	1,8÷2,0	Pressure ratio	28:1
Product pressure (Atm)	1,0÷1,7	Nozzle diameter (inch)	0,015÷0,019	
Air pressure	3,5÷5,0	Product pressure (Atm)	130,0÷170,0	



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TECHNICAL DATA:

Mechanism of hardening	Heat curing
Specific weight (kg / l) *	1,02 (±8%)
Volume solids (%) *	45 (±1%)
Medium dry film thickness (microns)	20-30
Correspondence wet film thickness (microns)	45-65
Yield to the average or recommended thickness (m ² / kg) *	22-15
Yield to the average or recommended thickness (m ² / lt) *	22-15
Consumption at the average or recommended thickness (Kg / m ²) *	0,05-0,07
Consumption at the average or recommended thickness (lt / m ²) *	0,04-0,07
Passivation time at 25 ° C (min)	20
Recoat time min. recommended 25 ° C (hours)	/
Recoat time max. recommended 25 ° C (days)	/
Hard dry at 180 ° C (minutes)	30
Recommended application temperature (° C)	+5 ÷ +40
Maximum operating temperature (° C)	250
Pot life at 25 ° (hours)	/
Mixing ratio by weight	/
Mixing ratio by volume	/
Thinner	6060021
Maximum dilution (% volume)	15%
Aspect of the film	matt
Color	Clear
Storage in suitable conditions (months)	12

N.B.

* Data referred to colour clear. The solid content values, specific weight and yield were calculated with theoretical method. Thickness and performance are only indicative, in fact vary greatly depending condition of substrate, dilution, absorption, porosity, surface irregularities and application method.



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ADDITIONAL INFORMATION:

This is a one-component product. Vigorously mix the product for a few minutes with appropriate instruments and characterized by sufficient size, in order to ensure the complete homogeneity. Where possible it is preferable to use a mechanical stirrer. Before cooking in the oven at 180° C for 30 minutes, wait 15-20 minute (passivation) in order to avoid the formation of bubbles. It is recommended to implement all necessary measures (development of equipment for painting, using any thinner retardant-wetting thinner, position yourself upwind, proper progression of the surfaces to be painted) to prevent the accumulation of dust coating, which if not removed causes inhomogeneity of the film.

IMPORTANT NOTE

All information contained in this form are the result of laboratory tests carried out under controlled conditions and well-defined and / or correspond to our most advanced and current technical and practical knowledge. this does not exempt the customer, given the variability of environmental conditions and personal systems of application, from carrying out their own investigations and to make their own eligibility checks. Mondial Color assumes no responsibility for any damage caused by improper use of the product. This sheet supersedes the previous editions.
