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PRODUCT DATA SHEET

PRODUCT: **DIAMOND COATING**
Low-thickness waterborne antifriction coating

CODE: **COMP. A 790 DIAMOND COATING**
COMP. B 9700090 - CAT. PER DIAMOND COATING

PRODUCT DESCRIPTION: High-performances antifriction nanomaterial coating for use in harsh environments. It offers very good corrosion resistance, scratch resistance, abrasion resistance and outstanding chemical resistance. High-temperature resistant up to 450°C.

SURFACE PREPARATION: This product can be applied on all metallic substrates. It is recommended to perform an accurate sandblasting at low incision profile ($Ra < 2,5-3\mu m$) by using 60-80 mesh corundum. It is possible to apply the coating over chemical conversion coatings (e.g. Mn PCC). The product must be applied strictly on dry surfaces, clean, perfectly free of oil, grease, dust, moisture or other contaminants. It is mandatory to provide a thorough cleaning of the surface before applying the product, as waterborne products are universally known to not be able to adhere on contaminated surfaces.

APPLICATION METHODS: Spray. We recommend you a spray application using manual spray gun.

APPLICATION INSTRUCTIONS:	CONVENTIONAL SPRAY LOW PRESSURE PUMP		AIRLESS AIRMIX	
	Nozzle diameter (mm)	1÷1,5	Pressure ratio	÷÷
Product pressure (Atm)	0,5÷1	Nozzle diameter (inch)	÷÷	
Air pressure	2÷4	Product pressure (Atm)	÷÷	



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TECHNICAL DATA:

Mechanism of hardening	Heat curing
Specific weight (kg / l) *	1,265 (±8%)
Volume solids (%) *	38,1 (±1%)
Medium dry film thickness (microns)	20
Correspondence wet film thickness (microns)	52
Yield to the average or recommended thickness (m ² / kg) *	15,07
Consumption at the average or recommended thickness (Kg / m ²) *	0,07
Hard dry at 180 ° C (minutes)	20
Max. nominal continuous service temperature (° C)	350
Max peak temperature (° C)	450
Mixing ratio by weight	27%
Thinner	Water
Pot life at 25°C (hours)	2
Aspect of the film	matt
Color	On request

N.B.

* Data referred to colour black. 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. Data referred to the mixture of component A + 25% by weight of Comp.B



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ADDITIONAL INFORMATION:

This is a two-component product. Before mixing the two components it is recommended to homogenize the component possibly with agitator and shake vigorously, possibly without opening, the packaging of component b. After mixing and addition of appropriate thinner, agitation should be continued until it became homogeneous. In order to use the correct mix ratio, necessary to obtain the best results, we recommend to catalyse only entire packs. In case you want to use only a portion of the pack, you should equip with adequate precision scale for catalysis by weight and appropriate sized containers for catalysis by volume. The temperature of the surface to be treated must be at least 3° C higher than dew point. If this condition is not met the resulting condensation, not always visible, may easily lead to phenomena of non-adherence. This product must be oven-cured at a minimum temperature of 180°C. Before applying the heat treatment it is mandatory to let the coating dry in air at ambient temperature for 20 minutes. If this procedure is not performed, alterations in the aesthetic of the coating can occur.

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. The values of specific weight, solids by volume and yields were calculated by theoretical methods. This sheet supersedes the previous editions.
