

Technical Data Sheet

XA2006/XX CONCENTRATED WATERBORNE PASTES FOR TINTOMETRIC SYSTEM

Supersedes previous issue dated 07/25/13

DATE 03/21/17

Colours:	06 blue 07 golden yellow 08 oxide red 17 lemon yellow 26 red 42 green 52 oxide yellow 53 magenta 61 violet 69 orange 72 black BB white
Area of use:	for tinting Hydroplus series waterborne coatings

Technical characteristics:

Specific gravity (kg/lt):	06 blue	1.120 ± 0.030
	07 golden yellow	1.200 ± 0.030
	08 oxide red	1.500 ± 0.030
	17 lemon yellow	1.400 ± 0.030
	26 red	1.145 ± 0.030
	42 green	1.265 ± 0.030
	52 oxide yellow	1.610 ± 0.030
	53 magenta	1.085 ± 0.030
	61 violet	1.075 ± 0.030
	69 orange	1.130 ± 0.030
	72 black	1.140 ± 0.030
	BB white	1.875 ± 0.030
Solids content (%):	35 ÷ 70 according to colours	
Shelf-life (months):	15	

General characteristics

The XA2006/XX series consists of concentrated pastes compatible with waterborne products and with a high yield and good sedimentation resistance.

All XA2006/XX pastes are compliant with the requirements stated by the European Rule EN 71-3:2002 on toys safety.

N.B.: DATA PROVIDED ON THIS TECHNICAL DATA SHEET CORRESPOND TO OUR BEST KNOWLEDGE AND EXPERIENCE. WE ASSURE CONSISTENCY ON THE CHEMICAL-PHYSICAL CHARACTERISTICS OF OUR PRODUCTS, WITHIN THE TOLERANCE LIMITS SPECIFIED ON OUR TECHNICAL DATA SHEETS. RESPONSIBILITY OF FINAL RESULT OF PRODUCT APPLICATION IS FULLY UP TO THE USERS, WHO SHALL MAKE SURE THAT THE PRODUCT CORRESPONDS TO THEIR OWN NEEDS WITH REGARD TO APPLICATION SYSTEM, TO SUBSTRATES USED AS WELL AS TO WORKING CONDITIONS.

WARNING: ACTUAL VISCOSITY OF SOME PIGMENTED AND/OR THIXOTROPIC PRODUCTS MAY DIFFER FROM THE VISCOSITY SHOWN ON THE TECHNICAL DATA SHEET. DIFFERENCES ARE TO BE REGARDED AS ACCEPTABLE IF WITHIN 30% MAXIMUM.

When used with AT9930/BB, AT9930/NN, XA9930/BB, XA9930/NN (which are compliant with EN 71-3:2002 as well), these pastes enable formulation of all possible colours for coating toys both for interiors and exteriors (in the latter case only with XA99**/XX).

XA2006/XX pastes consist of pigments with good light fastness and weather resistance, allowing them to be used with waterborne products for interior and exterior usage.

However, the properties of each individual pigment must be taken in to consideration when choosing the most suitable one for the specific use.

Unlike XA4099/XX pastes, the addition of XA2006/XX series does not drastically cut viscosity in binders.

Colour	Light fastness (3)		Weather resistance (3)		INTERIOR		EXTERIOR	
	Full tone	Blend with white	Full tone	Blend with white	Pale colour	Strong colour	Pale colour	Strong colour
06	8	8	8	7/8	yes	yes	yes	yes
07	8	8	8	7/8	yes	yes	yes	yes
08	8	8	8	8	yes	yes	yes	yes
17	8	8	7/8	7	yes	yes	yes	yes
26	8	8	8	7/8	yes	yes	yes	yes
42	8	8	8	7/8	yes	yes	yes	yes
52	8	8	8	8	yes	yes	yes	yes
53	8	7/8	8	7/8	yes	yes	yes	yes
61	8	7/8	8	8	yes	yes	yes	yes
69	8	6	7/8	6	yes	yes	yes/no*	no
72	8	8	8	8	yes	yes	yes	yes
BB	8	8	8	8	yes	yes	yes	yes

(3) 8 = Excellent; 6 = Adequate.

* yes/no Can be used, but does not have good light fastness, especially if present in a small percentage with respect to the white pigment.

PRODUCTS FOR EXTERIORS

XA2006/XX pastes can be used to tint waterborne basecoats and topcoats according to the following instructions.

They are not suitable to tint preservative woodstains for exteriors.

Waterborne basecoats: XA2006/XX pastes may be added to white or clear basecoats at a maximum concentration of 3%. Higher quantities adversely affect film drying and sanding.

Pigmented waterborne topcoats: XA2006/XX pastes may be used at a maximum concentration of 2% in existing series shades to correct color.

XA2006/XX pastes are mainly used for formulating RAL, Wood Color, NCS and bespoke shades for exteriors with two specially designed converters: XA9930/NN clear and XA9930/BB white. Users without the dosing machine can ask for the formulation book by weight.

COMPANY WITH
MANAGEMENT SYSTEM
- UNI EN ISO 9001 -
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Company under the direction and coordination of The Sherwin-Williams Company, USA

PRODUCTS FOR INTERIORS

XA2006/XX pastes can be used for tinting Hydroplus waterborne products for interiors complying with the following guidelines.

Waterborne basecoats: use XA2006/XX with AU0471/N0 or white basecoats up to 4% maximum; higher quantity might actually worsen sanding. The same applies to the first coat of self-sealers.

Pigmented waterborne topcoats: XA2006/XX pastes may be used at a maximum concentration of 15% to formulate colours in full shade (see below). Above this percentage, the chemical-physical characteristics of the topcoats worsen. Since the hiding power of the pigment varies depending on the color of the paste, the table below shows an indicative hiding power index: from 1 (low) to 5 (high) for each paste used with AT9930/NN to get a full shade with an application weight of 150 g/m².

For the test, products are formulated as 90 parts of AT9930/NN and 10 parts of paste.

Colour	Full shade
06*	5
07	4
08*	5
17	3
26	4
42*	3
52*	5
53	3
61	4
69	5
72*	5
BB	5

* hiding power has been tested with an 8% content of paste.

XA2006/XX pastes are mainly used for formulating RAL, Wood Color, NCS and bespoke shades for interiors with two specially designed converters: AT9930/NN clear and AT9930/BB white.

For conventional spray application we recommend thinning the product with 5% to 15% water depending on the shade.

Remarks

Generally speaking, pigmented pastes only slightly decrease chemical-physical resistance of the topcoat and slow down drying. To restore ideal conditions, we recommend the use of XA4080/00 cross linker at 1%.

Special instructions

The following are some useful recommendations when using XA2006/XX pastes:

1. Ensure that the bases are mixed perfectly and kept in properly sealed cans.
2. Once the formulation ingredients have been weighed out, the product must be mixed mechanically with a stirrer until the color is totally uniform.
3. Even small errors in weighing out the bases can give an incorrect colour. It is therefore always advisable to perform an application test to verify whether the desired colour has been obtained or whether further corrections are needed.
4. Do not store the product in places with temperatures lower than 5°C. It can be damaged by the cold.

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