

## Technical Data Sheet

### AJ1330/NN HYDROXPLAST WATERBORNE CONVERTER FOR TINTOMETRIC SYSTEM - NEUTRAL

Annulla e sostituisce la precedente versione datata 29/07/11

DATA 06/12/12 FM/am

<b>Color</b>	NN neutral	
<b>Version</b>	30 gloss	
<b>Area of use</b>	PVC window frames and wooden parts exposed outdoor; neutral waterborne converter for tintometric system.  To mix with pigmented pastes series XA2006/XX following the indicated quantities.	
<b>Method of use</b>	Spray (conventional, airless, airmix and electrostatic spray guns suitable for waterborne products).	
<b>Technical characteristics</b>		
* Solid content (%):	35 ± 1	
* Specific gravity (kg/l):	1,046 ± 0,030	
<b>General characteristics</b>		
* Number of coats:	2 max.	
* Recommended application weight (g/m <sup>2</sup> ):	100 min. – 200 max.	
* Drying time (120 g/m <sup>2</sup> at 20°C):	dust free	40'
	touch free	2 ore
	sanding	6 ore
	stacking	24 ore
* Forced air drying (120 g/m <sup>2</sup> ):	flash off	20'
	hot air at 40°C	120'
	cooling	20'
* Shelf-life (months):	15	

AJ1330/NN converter is a waterborne topcoat for outdoor and it can be pigmented suitable on plastic substrate like PVC. The peculiar characteristics are the raw materials suitable for outdoor on amorphous materials.

**N.B.:** QUANTO I DATI E LE INFORMAZIONI RIPORTANO NELLA PRESENTE DOCUMENTAZIONE TECNICA CORRISPONDE ALLA NOSTRA ESPERIENZA. ASSICURIAMO MASSIMA GARANZIA SULLA CONTINUITA' DELLE CARATTERISTICHE CHIMICO-FISICHE DEI NOSTRI PRODOTTI ENTRO LIMITI DI TOLLERANZA ESPRESSI DALLE SCHEDE TECNICHE. IL RISULTATO FINALE SARA' SOTTO LA COMPLETA RESPONSABILITA' DELL'UTILIZZATORE CHE DOVRA' ASSICURARSI CHE IL PRODOTTO CORRISPONDA ALLE PROPRIE NECESSITA' IN RELAZIONE AGLI STRUMENTI APPLICATIVI, AI SUPPORTI UTILIZZATI ED ALLE CONDIZIONI AMBIENTALI DI APPLICAZIONE.  
**ATTENZIONE:** SU ALCUNI PRODOTTI PIGMENTATI E/O TIXOTROPICI POSSONO VERIFICARSI DIFFERENZE TRA VISCOSITA' INDICATA DAL COLLAUDO E VISCOSITA' EFFETTIVA. LE DIFFERENZE SULLA VISCOSITA' DICHIARATA DEVONO CONSIDERARSI ACCETTABILI FINO AD UN MASSIMO DEL 30%.

AZIENDA CON  
SISTEMA DI GESTIONE  
- UNI EN ISO 9001 -  
- UNI EN ISO 14001 -

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**Società soggetta a direzione e coordinamento di The Sherwin-Williams Company, USA**

AJ1330/NN base cannot be used as is; it must be mixed with waterborne pastes XA2006/XX according to the mixing ratio shown in the formulary

The product exhibits good thixotropy and can be applied even vertically in thick coats (max. 250 g/m<sup>2</sup> wet) with no dripping problems. We remind that the thixotropy properties can change adding the pigmented pastes series XA2006/XX, so can be necessary to reduce the application weight.

The main characteristics are the following:

1. absence of "blocking";
2. absence of spontaneous combustion;
3. absence of lifting problems (even overcoating after very short intervals);
4. high outdoor durability (weather-resistant, sun, rain, ...)
5. application versatility (airmix, airless, ...)

### **TYPE OF PLASTICS**

Given the large family of plastic substrates, it's necessary an evaluation of the coating in all its aspects. We suggest an involvement of the R&D laboratory of Sayerlack.

### **PREPARATION OF THE SUBSTRATE**

It's necessary to remove the grease from the substrate using the specific thinner DT1150, DT15, DT13 and to apply the topcoat until 90°.

### **SPESSORE DELLA VERNICE**

In order to achieve a sufficient resistance when exposed outdoors, it is necessary to apply a minimum dry layer of 80 µm.

### **APPLICATION**

The pigmented bases can be apply using the normal spray systems (airless, airmix and electrostatic) on condition that they are suitable for waterborne products.

For electrostatic application the equipment must be specific for waterborne paints.

- For conventional spray guns: 2.5-3.0 mm nozzle, pressure 3-4 atm.
- For airless spray guns: 11-13 nozzle, material pressure 90-120 atm.
- For airmix spray guns: 11-13 nozzle, material pressure 90-120 atm., air pressure 1-2 bar.

It's possible the use of the pre-atomizer nozzles. Equipment that is not in perfect condition (faulty seals, too high pressures) or pumps with low capacity can cause serious defects in the coating film (in particular air bubbles).

### **DRYING**

Waterborne pigmented products must be dried in rooms with temperatures not below 15°C and relative humidity no greater than 70%. Outside this range drying is slower and/or the film is formed with poorer hardness and chemical resistance. For good drying it is advisable to use a forced flow of dry air initially at room temperature and subsequently at 20-30°C.

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### CHEMICAL RESISTANCE AND CROSS-LINKER

In view of the poor resistance of waterborne products to alcohols and ammonia, door and window frames coated with this kind of products should be cleaned with neutral detergent solutions in lukewarm water.

To improve the chemicals resistances we suggest to add 1% of XA4080/00 cross-linker. Its shelf-life is 16 hours, after this time it's necessary to add the cross-linker again.

### ADHESIVES, SEALS, SILICONES AND PACKAGING MATERIALS

We advise against using PVC based seals (even as the supporting base for trolleys) since they release plasticisers that attack and soften the film of coating.

Neutral silicone is the most suitable type for mounting glass in door or window frames coated with waterborne products.

Acetic silicones provide poor adhesion.

Expanded polystyrene, bubble wrap and PVC-based plastic materials are unsuitable for packaging door and window frames coated with waterborne products.

Expanded polyethylene is the packaging material giving the best results.

**Note to prepare the color:** we suggest to add the anti-foam product XA4021/00 (0,5%) to avoid the foam after the adding of the pigmented pastes.

XA4021/00 must be added before the pigmented pastes. The anti-foam is easy to add and mix without mechanical mixer.

### Warning

- Do not store the product at temperatures lower than 5°C.: keep from freezing.
- Coating residues must be disposed of in accordance with current legislation. Do not pour residues down drains.
- When switching from a solvent-based to a waterborne coating system it is always advisable to contact suppliers' technical departments to check whether equipment and components are appropriate. In particular, check: electrostatic guns, pumps, seals, silicones, glues, booth treatment water products and packaging materials.
- Once the can has been opened, the coating is susceptible to the attack of bacteria commonly present in the air, which can cause rotting, as evidenced by the foul smell and increase in viscosity of the product in the can. To avoid this problem, do not pour used coating back into cans with fresh product and do not leave cans open for more than a week, especially in hot weather. The adding of anti-bacteria Hydroplus increases the storage life of product.