

Technical Data Sheet

TU0218/XX PIGMENTED SELF-SEALER FOR EXTERIORS

Supersedes previous issue dated 02.12.22

DATE 07 February 2023

Versions and colours:	White 13	15 gloss
	White BB	30 gloss
	White 41	35 gloss
	Neutral N0	30 gloss
Area of use:	Exterior doors and window frames, garden furniture	
Method of use:	Conventional and electrostatic spray guns.	
Mixing procedure:		by weight (kg) by volume (l)
	Part A	TU0218/XX (col. 13 excl.) 100 100
	Part B (hardener)	TH0720/00 40 60
	Thinner	DT1150/00 10 - 30 15 - 40
	Part A	by weight (kg) by volume (l)
	Part B (hardener)	TU0218/13 100 100
	Thinner	TH0720/00 30 40
		DT1150/00 20 - 30 30 - 40

Technical characteristics

Solids content (%):	BB, 13, 41	78 ± 2
	N0	67 ± 1
Specific gravity (kg/l):	BB	1,450 ± 0,030
	13	1,560 ± 0,030
	41	1,480 ± 0,030
	N0	1,260 ± 0,030
Viscosity at 20°C:	41/BB:	35" ± 5" (DIN 8)
	13/N0:	45" ± 5" (DIN 8)

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.

General characteristics

Pot-life:	5 hours
Recommended application weight (g/m ²):	Minimum 80, Maximum 150
Interval between coats:	Minimum 90', Maximum 5 hours
Number of coats:	Maximum 3
Drying time (100 g/m ² at 20°C):	Dust free 40' Touch dry 90' Stackable 16 hours
Forced air drying:	Not recommended.
Sanding:	Wait at least 12 hours.
Overcoating:	Wait at least 12 hours.
Light fastness:	5, grey-scale (100 hours of exposure to UV light ATLAS UV-CON equipment).
Shelf-life (months):	36 After long periods of storage, always check homogeneity and stir well before use to eliminate any possible sediment.

TU0218/XX is a matt self-sealer specially designed for exteriors.

It exhibits exceptional resistance to weathering, temperature changes, ultraviolet rays and chemical attack.

Durability tests, performed by our company and by specialized institutes, have shown that the film of TU0218/XX does not deteriorate or crack either in the mountains at high altitudes or in marine environments, which are known to be the most aggressive.

TU0218/XX can be used as a self-sealer directly on TU0250/00 barrier basecoat. As a self-sealer, when applied on large surface it may show uneven matting depending on application parameters.

TU0218/N0 is a neutral version and can be used only after blending with TP2009/XX solvent-based pastes ratio TU0218/N0 80% + TP2009/XX 20% by weight. The different pastes of the tinting system can give variations in the chemical/physical characteristics of the finished product. According to this, we recommend TU0218/N0 for full shades colors, while for light or pastel shades, we recommend TU0218/13 or TU0218/BB, also after blending with TP2009/XX solvent-based pastes at max. 5% by weight.

All the tintometric versions TU0218 / N0, / 13, / BB are designed for custom formulas, it is not possible to use predefined formulas for other converters.

It is important to remember that the addition of organic pigmented pastes implies longer drying times, lower hardness as well as lower hiding power than inorganic pigmented pastes.

Substrate preparation

Thorough sanding of bare timber and treatment with TU0250/00 barrier basecoat.

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Company under the direction and coordination of The Sherwin-Williams Company, USA

Application system

MATT SYSTEM

TU0250/00 barrier

TU0218/XX basecoat

sanding

TU0218/XX topcoat

Recommended wood species

Softwood is the most suitable timber for pigmented exterior grade systems provided it has few knots and is resin-free (the resin is dangerous because passes through the coating film and spoils the aesthetical result by creating yellow spots).

The most suitable timber is hemlock, followed by fir. Generally they have small and few knots and do not contain much resin.

Pine gives mixed results depending on the place of origin, the period in which the tree was felled and the drying/seasoning of the bare boards.

For these reasons, neither using products ensuring extremely high insulating power such as TU0218/XX, one can be sure that pine resin does not come to the surface creating yellowish spots.

We advise against the use of porous timbers (such as meranti, iroko, oak, chestnut, etc.), because the aesthetical result is poorer and the remaining porosity of the coated items significantly worsens their resistance when exposed outdoors.

WARNING

TU0218/XX exhibits the maximum possible elasticity for products of its kind.

Clearly, however, it is unable to compensate for excessively large movements of the timber, caused for example by excessive humidity, inadequate seasoning and infiltration of water.

We therefore recommend checking the dimensional stability of the substrate before application.

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