

Product Data Sheet

Awlfair SF



Intended Uses

Awlfair SF is the latest high-performing, solvent-free filler technology from the Awlgrip brand. Delivering the operational performance you expect from Awlgrip, Awlfair SF is distinct because it is applied by pressurized airless spray rather than hand application. Perfect for fairing, levelling or smoothing surface imperfections due to gouges, pitting, dents or weld seams.

Specification Data

Volume Solids	93.4
Available Packs	200 lt
Base	OD8500
Converter	OD7500
Equipment Cleaning	GTA803
Typical Shelf Life	12 months

Theoretical Coverage

Application Methods	Number of Coats	Recommended Per Coat			Theoretical Coverage Per Coat (at recommended DFT)
		WFT	DFT	Max DFT	
Batten, Trowel, Longboard battens, Spatula, Putty Knife, Airless Spray	As required	6000 µm 236.2 mil	6000 µm 236.2 mil	10000 µm 393.7 mil	0.2 m ² /lt 8.1 ft ² /Gal

Maximum of 2 coats per day at 6mm when applying by airless spray.

For manual application a maximum DFT of 6mm per application is recommended to avoid excessive air pockets, which if not removed, could lead to early system failure.

Coverage calculations are based on theoretical transfer efficiency of 100%. Actual coverage rate obtained will vary according to equipment choice, application techniques, part size and application environment.

Mechanical Properties

Test	Temperature		
	-20°C (-4°F)	0°C (32°F)	20°C (68°F)
Compressive Strain (%)	8	8	12.5
Compressive Strength (MPa)	90	73	45.5
Flexural Modulus (MPa)	3791	3652	2091
Flexural Strain (%)	1.5	1.7	2.57
Flexural Strength (MPa)	57	59	37.6
Tensile Modulus (MPa)	3400	2859	1872
Tensile Strain (%)	1.02	1.08	1.8
Tensile Strength (MPa)	33	30	17.41

Warning: The information set out above is provided for guidance only and is based on our own internal product testing under controlled conditions using spray applied product. Please note that there may be slight variations when the product is used in service conditions. Air pockets due to poor manual application will significantly affect the mechanical properties of the Awlfair SF and therefore must be eliminated as far as possible. We appreciate that it is very difficult to entirely eliminate air pockets in an industrial environment. You can, however, minimise any risk by eliminating air pockets as far as possible and by ensuring that any air pockets are less than 4mm. The use of battens when fairing can result in excessive air pockets and should be discussed with an Awlgrip technical representative. If in doubt, test the product for the intended use on a suitable mock-up representative of the vessel area to be faired, in order to fully take into account any specific design, temperature, fabrication, substrate, application and product thickness/scheme considerations. Seek independent expert advice to ensure that the construction and design are suitable for the chosen system and will not cause the fairing material to crack or delaminate. We have taken reasonable care in preparing the information contained in the table above and in collecting and preparing material for inclusion in it, but do not represent or warrant that it is free from error or that the information content is complete or accurate. To the extent permitted by law, International Paint Ltd, trading as Awlgrip, accepts no responsibility whatsoever for any loss, damage, or other liability arising from any use of information contained in the table above or reliance upon the information which it contains.



VOC

All VOC information contained herein is theoretical (unless otherwise stated). Actual VOC content may vary by batch and when tested via standard test methodology.

Specific Gravity: 0.74 (NB: SG may be slightly higher when applied through automated mixing and spraying machine, but should be less than 0.85).

Product	As Supplied (without reducer)			
	g/L	lb/gal	g/Kg	lb/lb
Awlfair SF	69	0.58		

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Surface Preparation

The surface preparation advice provided, and equipment suggestions, can be used as a guide. Preparation techniques and results will vary according to individual conditions, equipment choice/condition and other factors. Testing on a non-critical area should be carried out prior to full-scale preparation.

Only apply over properly applied and prepared Awlgrip primers. Hullgard Extra Epoxy Primer and Hullgard Epoxy Primer are recommended substrate primers. Awlfair SF may be applied direct to Hullgard Extra and Hullgard Epoxy without the need for sanding. See the relevant primer product datasheet for details. Awlfair SF must be sanded prior to the application of other products in the scheme.



Mixing & Reduction

Mixing requirements will vary according to individual conditions, climate, equipment choice/condition and other factors.. Mixing and application of a small sample before full-scale application is recommended.

Application Methods	Mix Ratio (Base:Converter)	Reducer	Recommended Thinning	Spraying Viscosity
Batten, Spatula, Airless Spray, Trowel, Longboard battens, Putty Knife	1.10:1 by volume 1.20:1 by weight	-	Do not thin	-

For spray application, mixing is automatically controlled by the application equipment. It is the responsibility of the application supervisor to ensure that the spray equipment is set up correctly. Mix ratio and dosing checks must be carried out before application, using the appropriate function on the application equipment.

If mixing manually, ensure the two components are mixed thoroughly to a uniform light blue color with no streaks or lumps.

Warning: Do not add reducers, solvents or thinners of any kind to Awlfair SF.



Application

Application equipment and parameters are given as a guide. Actual equipment choices will vary according to application conditions, equipment condition and other factors. Testing on a non-critical area should be carried out prior to full-scale application. Contact your local technical service representative for further advice if necessary.

Please ensure a risk assessment is carried out to assess the level of PPE required for the particular task undertaken when using this product.

Do not use below 10°C or warmer than 45°C. Proper application and/or cure results may be more difficult to achieve when conditions are outside this range. Avoid conditions of low temperature with high humidity as this can result in the formation of a surface by-product that must be removed by either detergent wash followed by fresh water wash, or by sanding.

Awlfair SF must only be applied over properly applied and prepared Awlgrip primers. Hullgard Extra and Hullgard Epoxy (GRP only) are recommended substrate primers. Awlfair SF may be applied direct to Hullgard Extra and Hullgard Epoxy without the need for sanding.

Pot life and working time is dependent upon temperature. Warmer climates will decrease pot life.

Spray Application: Apply in even coats of up to 6mm wet film thickness. At 23°C, allow 10 minutes for sprayed product to set up prior to screeding.

Manual Application: Apply Awlfair SF by trowel to an area you can work in 15-20 minutes. Start with thin coats of up to 6mm in low areas and build out to high areas. Allow to cure. Several applications may be necessary to fill large areas. Block or machine sand with 80 to 120 grit paper. Remove air pockets and chamfer the edges prior to refilling as appropriate. Remove sanding dust and residue before applying more Awlfair SF. Stop when the faired surface meets the fairing quality specified for the project.

Note: When battens are used in the fairing process, voids and hard edges can form when the battens are removed. Failure to correctly remove the batten, grind the area out to a tapered transition at greater than 7:1 ratio and then apply product in 6mm applications can lead to air voids, lack of adhesion and print through of the batten line.

Awlfair SF must be sealed with an Awlgrip Epoxy Primer such as High Build or Ultra Build when used above the water line. This will maximize gloss and colour holdout in the Awlgrip top coat system.

For additional application guidance, refer to the Awlfair SF Application Guidance information.



Recoatability & Drying Times

The data given for recoatability is not exhaustive. Actual recoatability can vary according to individual conditions, climate and surroundings. If unsure, consult your local technical service representative before proceeding.

Drying Times: Note: While the fairing compound may appear hard dry, curing will continue for several days. This does not prevent overcoating.

Recoatability: Awlfair SF can be applied wet on wet without sanding at intervals of up to 24 hours at 23° when applied by airless spray. Maximum of 2 coats per day.

Awlfair SF must be sanded before recoating with any of the high build primers detailed in the 'Overcoated by' table. It must be overcoated with an approved high build primer to reduce the risk of print through of the fairing compound profile.

Warning: Some areas may need extra applications and additional block sanding to achieve specified quality (ie under dark hulls). Fairing compound must be sanded prior to application, and application of primer should take place as soon as possible after sanding.

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Drying	10°C (50°F)	15°C (59°F)	25°C (77°F)	35°C (95°F)
Hard Dry	48 Hours	36 Hours	24 Hours	16 Hours
Sandable	48 Hours	36 Hours	16 Hours	4 Hours
Pot Life	135 Minutes	105 Minutes	75 Minutes	35 Minutes

Overcoated By	10°C (50°F)		15°C (59°F)		25°C (77°F)		35°C (95°F)	
	Min	Max	Min	Max	Min	Max	Min	Max
Awlfair Surfacing FillerHigh Build Epoxy PrimerUltra Build Epoxy Primer	48 Hours	Extended	36 Hours	Extended	16 Hours	Extended	4 Hours	Extended
Awlfair SF	30 Minutes	Extended	30 Minutes	Extended	30 Minutes	Extended	30 Minutes	Extended

Awlfair SF values above refer to application by airless spray. Manual application - 48 hrs at 10°C/50°F, 36 hrs at 15°C/59°F, 16 hrs at 25°C/77°F and 4hrs at 35°C/95°F.



Warning Notes

The information in this Product Data Sheet is not intended to be exhaustive. Any person using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk and, to the extent permitted by law, we can accept no responsibility for the performance of the product or for any loss or damage arising out of such use. The information contained in this Product Data Sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

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