

TECHNICAL DATA SHEET

DOLPHIN FIX AND SEAL POWER

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PRODUCT DESCRIPTION

Dolphin Fix & Seal Power is a high quality, neutral, elastic one-component adhesive sealant based on Hybrid Polymer, Dolphin Fix & Seal Power has a very high initial tack.

TECHNICAL PROPERTIES



Properties	Test Method	Unit	Specifications
Chemical Base			Hybrid Polymer
Cure Mechanism			Moisture
As Supplied @ 25°C, 50% RH			
Color			White
Consistency	-		Stable paste
Density	ASTM D 1475	g/ml	1.68 ± 0.02
Flow Properties	ASTM C 639	mm	0 (Non-sag)
Tack Free Time*	23°C, 50 % R.H	minutes	Ca. 20
Depth Cure* (24 Hrs.)	Lab Test	mm	Ca. 3.0/24Hrs.
As Cured - 7 Days @ 25°C, 50% RH			
Hardness** (Shore A)	ASTM D 2240	Shore A	50±5
Elastic Recovery**	ISO 7389	%	>75
Maximum allowed distortion	-	%	±20
Maximum Tension**	ISO 37	N/mm ²	> 1.75
Elongation at break**	ISO 37	%	>200
Elastic Modulus 100% **	ISO 37	N/mm ²	Ca. 1.30
Temperature resistance**	-	°C	-40°C to +90°C
Application Temp.	-	°C	5°C to 35°C

Note:

* These values may vary depending on environmental factors such as temperature, moisture and type of substrates.

** This information relates to fully cured product.

(Information on this data sheet is subject to change without prior notice and should not be used for writing specifications)

PROPERTIES

- High initial tack
- Reduced need for support
- Very good adhesion on many materials, even if slightly moist
- High shear strength after full cure (no primer)
- For in and outdoor use
- Permanently elastic after curing
- No odour
- Can be painted with water based systems

APPLICATIONS

- Bonding of all types of building materials onto all porous and nonporous surfaces
- Elastic bonding of objects, panel profiles and other pieces on the common substrates
- Strong elastic bonding in vibrating constructions

Color

Dolphin Fix and seal power is available in White and other RAL* colors available upon request. *Special colors orders may require lead time and minimum order quantities. Please consult the Dolphin representative.



WORLD-CLASS
CHEMICALS

Packaging	Dolphin Fix and Seal power is available in cartridge (280 ml) and foiled bag (600 ml) other package on request.
Storage and shelf life	12 months in unopened packing in cool and dry storage place at temperatures between +5°C and +25°C.
Substrates	<p>Substrate condition: The substrates must be rigid, clean, dry, free of dust and grease.</p> <p>Substrate Preparation Porous surfaces in water loaded applications should be permitted with primer 150. Prepare non-porous surfaces with a activator or cleaner. While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding or sealing. For optimum adhesion use of surface activator is recommended.</p> <p>Substrate types Dolphin Fix & Seal Power has a good adhesion to following substrates: all usual building substrates, lacquered wood, AlCuMg1, AlMg3, Stainless steel, electrolytic galvanized steel, steel, steel ST1403, hot dip galvanized steel, polycarbonate (Makrolon®), polyamide, fiberglass, reinforced epoxy, polyester, Dolphin Fix & Seal Power has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates, copper or copper containing materials such as bronze and brass Bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Dolphin Fix & Seal Power is not recommended in these applications. We recommend a preliminary adhesion and compatibility test on every surface.</p>
Application Method	<p>Application method: with manual or pneumatic caulking gun Cleaning: Clean with white spirit or surface cleaner, immediately after use Repair: with the same material</p>
Health and Safety recommendations	<p>Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.</p>
Remarks	<ul style="list-style-type: none"> • Dolphin Fix & Seal Power may be overpainted with water based paints, however due to large number of paints and varnishes available we strongly suggest a compatibility test before applications. • Drying time of alkyd resin based paints may increase. • Dolphin Fix & Seal Power can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonates, etc may differ from manufacturer to manufacturer, we recommend a preliminary compatibility test. • Do not use as structural glazing sealant. • When applying make sure that the surface of the materials is not smudged with sealant. • A total absence of UV can cause a color change of the sealant. • Dolphin Fix & Seal Power can discolour under extreme conditions or after very long UV exposure. • Do not use on natural stones like marbles, granite,...(staining) • When using different reactive joint sealants, the first joint sealant must be completely hardened before that next one is applied. • Not suitable for bonding aquariums. • Do not use in applications where continuous water immersion is possible • Discolouration due to chemicals, high temperatures, UV-radiation may occur. • Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl etc. is to be avoided since it can give rise to discoloration an loss of adhesion.
Liability	The content of the data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.