

TECHNICAL DATA SHEET

DOLPHIN FIX & SEAL ALL PURPOSE

Revision Date: 17th Feb 2023

Revision No: 00

Number of Pages: 3

PRODUCT DESCRIPTION

Dolphin Fix & Seal All purpose is a high quality, neutral, elastic, 1-component adhesive sealant based on Hybrid Polymer.

TECHNICAL PROPERTIES



Properties	Test Method	Specifications
Chemical Base		Hybrid Polymer
Cure Mechanism		Moisture
As Supplied @ 25°C, 50% RH		
Color		White
Consistency	-	Stable paste
Density	ASTM D 1475	1.71 ± 0.02 g/ml
Flow Properties	ASTM C 639	0 (non-sag) mm
Tack Free Time*	23°C, 50 % R.H	Ca. 10 minutes
Depth Cure* 24 Hrs.	Lab Test	2 mm/24h → 3 mm/24h
As Cured – 7 Days @ 25°C, 50% RH		
Hardness** (Shore A)	ASTM D 2240	40 ± 5 Shore A
Elastic recovery**	ISO 7389	> 75 %
Maximum allowed distortion	-	± 20 %
Maximum Tension**	ISO 37	Ca 1,50 N/mm ²
Elongation at break**	ISO 37	Ca. 400 %
Elastic Modulus 100% **	ISO 37	Ca. 0,80 N/mm ²
Temperature resistance**	-	-40°C to +90°C
Application Temp.	-	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)

TYPICAL USES

- Very good adhesion on many materials, even if slightly moist
- Good extrudability
- Permanently elastic after curing
- Very durable
- Impervious to mold, contains biocide with fungicidal action
- No odour
- Solvent free
- Good weather and UV resistance
- Can be painted

KEY FEATURES

- Sealing and bonding in the building and construction industry
- Strong elastic bonding in vibrating constructions
- Sealing joints in sanitary rooms (bathroom) and kitchens



WORLD-CLASS
CHEMICALS

Packaging	Color: White other colors available on request, please consult Dolphin representative. Packaging: 280 ml cartridge, 600 ml foil bag, other packaging on request.
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 surface must be rigid, clean, dry, free of dust and grease</p> <p>Substrate preparation: Porous surfaces in water loaded applications should be primed with primer 150. Prepare non-porous surfaces with an activator or cleaner. The surfaces should be degreased before bonding them together. While producing plastics to bonding or sealing. For optimum adhesion use of surface activator is recommended.</p> <p>Substrate types: Dolphin Fix & Seal All Purpose has a good adhesion to following substrates: all usual building substrates, concretes, aluminum, lacquered wood, steel, AlMgSi1, electrolytic galvanized steel, AlCuMg1, flame galvanized steel, AlMg3, steel, ST1403, polystyrene, polycarbonate (Makrolon®), PVC, ABS, Polyamide, PMMA, fiberglass reinforced epoxy, Polyester. Dolphin Fix & seal All Purpose has no good adhesion or is not suitable for PR, 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 All Purpose is not recommended in these applications. We recommend a preliminary adhesion and compatibility test on every surface.</p>
Joint dimensions	<p>Min. width for bonding: 2 mm Min. width for joints: 5 mm Max. width for bonding: 10 mm Max. width for joints: 30 mm Min. depth for joints: 5 mm Recommendation sealing jobs: Joint width = 2x joint depth.</p>
Application method	<p>Application method: With manual or pneumatic caulking gun. Cleaning: Clean with Surface Cleaner, immediately after use Finishing: With a soapy solution or Dolphin Finishing Solution before skinning. Repair: With the same material.</p>
Health and Safety recommendations	Take the usual labor hygiene into account. Consult label and material safety data sheet for more information. Dangerous. Respect the precautions for use.
Remarks	<ul style="list-style-type: none"> • Dolphin Fix & Seal All-purpose may be overpainted with water-based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application • The drying time of alkyd resin-based paints may increase • Do not use on natural stones like marble, granite, (staining) • Dolphin Fix & seal All-purpose can be applied to a wide variety of substrates. Since specific substrates such as plastics, like polycarbonate, etc. may differ from manufacturer to manufacturer, we recommend preliminary compatibility test • Dolphin Fix & seal All-purpose cannot be used as a glazing sealant • A total absence of UV can cause a color change of the sealant • The sanitary formula should not replace regular cleaning of the joint, Excessive contamination, deposits or soap residues will stimulate the development of fungi • When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied • Not suitable for bonding aquariums • Do not use in applications where continuous water immersion is possible



WORLD-CLASS
CHEMICALS

	<ul style="list-style-type: none">• Dolphin Fix & Seal All Purpose has a good UV resistance but can discolor under extreme conditions or after long UV exposure• Discoloration 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 and loss of adhesion.
Liability	The content of this technical 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

*AMI reserves the right to change the properties of its products without notice.