



DOLPHIN FIX & SEAL CRYSTAL CLEAR

DOLPHIN FIX & SEAL CRYSTAL CLEAR is a flexible, high strength sealant and adhesive that is suitable for wide range of applications both for indoor and outdoor uses. **DOLPHIN FIX & SEAL CRYSTAL CLEAR** is most ideal for sealing and bonding transparent materials where an almost invisible finish is required.



TECHNICAL PROPERTIES

Properties	Test Method	Unit	Specifications
Chemical Base			1-C MS
Cure Mechanism			Moisture
Cure Type			Neutral (MS Hybrid)
<i>As Supplied @ 25°C, 50% RH</i>			
Color			Clear
Consistency			Homogeneous paste
Specific Gravity	ASTM D 1475	g/cm ³	1.06 ± 0.02
Flow Properties	ASTM C 639	mm	0 (Non-sag)
Skin Over Time	ASTM C 679	minutes	Approx. 6
Tack Free Time	ASTM C 679	minutes	Approx. 12
Depth Cure, 24 hrs	Lab Test	mm	~ 3.0
<i>As Cured – 7 Days @ 25°C, 50% RH</i>			
Hardness (Shore A)	ASTM D 2240	Points	35 – 40
Tensile Strength	ASTM D 412	N/mm ²	≤ 1.80
Elongation	ASTM D 412	%	≤ 400
Young's Modulus	ASTM D 412	MPa	≤ 0.60
Service Temp.		°C	-20 to +90

Note:

** Curing time (Skin Over Time & Tack Free Time) may vary depending on climatic condition during application.*

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

TYPICAL USES

- Connecting transparent joints in construction and building applications.
- Common indoor and outdoor sealing and bonding applications.
- Indoor application for invisible bonding of glass and other transparent materials.
- Wide variety of substrates including wood, metals, PVC, plastics, stone and concrete
- Insulation applications.

KEY FEATURES

- Crystal clear appearance with glasslike clarity.
- Advanced MS Polymer technology
- Excellent adhesion to most common building materials like glass, aluminum, concrete, wood, vinyl, and plastics.
- Good adhesion even for underwater application.
- Non-corrosive to metals.



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PACKAGING	DOLPHIN FIX & SEAL CRYSTAL CLEAR is available in collapsible tubes (90ml), standard caulking cartridges (290ml), packed sausages and 200 Liter drum.
SURFACE PREPARATION	Ensure that the surface to be sealed is clean, dry, sound and grease free. Metals should be cleaned with a non-oily solvent soaked clean cloth. Solvent should be wiped from the surface with a clean dry cloth. Use an alcohol such as methylated spirits on glass. When used on remedial work, all existing sealant must be removed. Porous substrates such as concrete, brickwork, mortar etc. must be mechanically cleaned of loose particles using a steel brush, sanding disc or any similar means.
APPLICATION INSTRUCTION	Cut nozzle in V-shape and at a sharp angle slightly wider than the desired bead. Screw nozzle on the cartridge. Can easily be extruded with a hand- or air pressure gun at temperatures between +5°C and 35°C.
TOOLING AND FINISHING	Immediately tool sealant after application and before skin formation. Tooling of sealant should be done in one continuous stroke. Remove masking tape immediately after tooling is completed.
CLEANUP AND REMOVAL	Uncured sealant may be removed from tools, equipment and non-porous surfaces with solvents. For porous substrates, allow the sealant to cure before removal by peeling or other mechanical means. Cured sealant can only be removed mechanically.
LIMITATIONS	With oil based alkyd type paints it has been noted that the drying time for the paint is increased. Not for PE, PP, Teflon, neoprene and bituminous surfaces. Has good UV resistance but may discolor when continually exposed To extreme conditions. Not recommended for structural glazing. Not suitable for use on natural stone as the clarity of the product will cause the substrate to look wet and may be mistaken as staining. Preliminary tests for substrate compatibility is recommended if doubts on suitability exists.
STORAGE AND SHELF LIFE	When stored in original unopened container at or below 77°F (25°C) in dry warehouse conditions, DOLPHIN FIX & SEAL CRYSTAL CLEAR has a shelf life of 12 months from manufacturing date. Containers should always be kept sealed when not in use.
HANDLING PRECAUTIONS	Use in well-ventilated area. Direct contact of uncured sealant may irritate eyes and skin. Do not handle contact lenses with sealant on hands. Obtain medical attention. In case of skin contact, remove from skin and flush with water.

KEEP OUT OF REACH OF CHILDREN • KEEP CONTAINER TIGHTLY CLOSED • FOR INDUSTRIAL & PROFESSIONAL USE

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made. AMI reserves the right to change the properties of its products without notice.

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