

## MULTI-FIX 9 IN 1 CRYSTAL CLEAR ADHESIVE & SEALANT



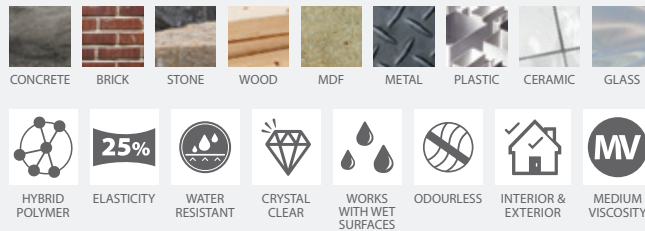
### DESCRIPTION

TIMco Multi-Fix® 9 in 1 Universal Adhesive & Sealant Crystal Clear has been developed to give superior bonding and sealing performance to all building materials including glass and PVCu.

The advanced formula is extremely versatile, allowing the product to be used as a replacement for both traditional adhesives and sealants, whilst giving a professional finish.

#### KEY FEATURES

- Hybrid polymer technology
- Excellent toolability
- Adheres to most traditional building materials
- Developed for a majority of trade and DIY applications
- Long lasting flexibility
- Superior strength, capable of supporting 400kg/10cm<sup>2</sup>
- Resealable nozzle to reduce waste during storage



### RANGE INFORMATION

Product Code	Size	Colour	Viscosity	Carton Qty
247336	290ml	Crystal Clear	Medium	12

TYPE - AHS SUBTYPE - AHS01

### APPLICATIONS

Sealing and connecting skirting-boards, panels, glaze, terracotta, wood, metals, metal plates, for selected types of surfaces in building such as glass, natural stone, marble, granite.

Filling gaps, joints, slots in stone, wood and other building materials.

Sealing and connecting building and construction elements made of glass, steel, natural stone.

### DIRECTION OF USE

- Bonding surfaces must be clean (not frosted) free of dust, rust, old loose old material oil, grease, paint and other dirt which reduces the adhesion of the sealant.
- Degrease Surfaces with acetone or ethanol (glass, glaze, metal) or detergent (synthetic materials).
- To avoid dirtiness around the gap and to maintain an equal line use TIMco MAX masking tape which should be removed immediately after finishing sealing.
- Sealant does not require using primer on most surfaces but on some specific surfaces may have to use it to improve adhesion, eg. on some types of concrete or sheet.
- Joint width should be as to be able to carry movement in range calculated for sealant in question (movement accommodation).
- The sealant bead should not be wider than 25 mm and the minimum joint width should be 6 mm to allow in the construction field proper application and tooling of sealant. The ideal ratio of joint width : depth is 2 : 1. Deep joints should be filled with back-up rod.
- In movable joints tripartite, sealant adhesion to the surface should be avoided because it can cause its damage. For this purpose if depth of the slots does not allow introduction of polyurethane foam, use dilatation tape or back-up rod. Using foam or tape causes bipartite sealant adhesion and allows proper work with the joint.
- If joints are too shallow to allow backing material to be used, we recommend use of adhesive tape. This acts as a back-up rod to prevent seal in forming of three-sided adhesion.

### APPLICATION CONDITIONS

Application temperature (°C)	+5 - +40
Surface temperature (°C)	+5 - +40
Packaging temperature (°C)	+5 - +25

### PRODUCT PREPARATION

Prior to application, the product should be conditioned at room temperature.

### APPLICATION

- Cut off the top of the threaded adapter. Screw the nozzle tip on and cut off at a 45° angle, with the diameter equal to the gap width.
- Apply sealant using a TIMco skeleton gun (SKELGUN) or professional gun (PROGUN)
- Joints should be smoothed by cube to distribute the sealant or spatula.
- Remove masking tape before skin will form.
- Joint should be allowed to fully cure.

## CLEANING

- Uncured product should be removed from hands, tools and dirty surfaces with a damp cloth or using Shield® Heavy duty or Shield® textured builders wipes.
- After curing, remove from hands with water and soap; from tools remove mechanically.
- DO NOT WASH HANDS WITH SOLVENTS.

## LIMITATIONS

- Sealant should not be used on bituminous surfaces, partially vulcanized rubber, chloroprene or other construction materials that bleed oils, plasticizers or solvents.
- In insufficiently or excessively sunny places joint can yellow.
- Take care when bonding materials "tension" (PMMA, PC), there is a risk of detachment- perform tests.
- Do not use in totally confined spaces where it is not exposed to atmospheric moisture, because the sealant requires atmospheric moisture for curing.
- Do not paint using dye based on alkyd resins.
- Sealant is not recommended for joints that are permanently under water, because it can cause physical changes.
- Not suitable for bonding aquariums and terrariums.
- Sealant is not intended for applications involving structural glazing.
- It is not suitable for direct contact with food and medical uses. Sealant was not duly tested and it is not suitable for medical and pharmaceutical applications.
- Do not apply on PE, PP and PVC - no adhesion.
- Before painting it is recommended to conduct a trial test, especially in a case of solvent-based paints.
- The product is not suitable for outdoor glazing seals.
- Product is not intended for use on roofs

## TECHNICAL DATA

Colour	
Crystal Clear	
Uncured - tested at 23 °C and 50% relative humidity	
Value	
Density (ISO 2811-1) [g/ml]	1,03 - 1,08
Skin formation time [min]	5 - 50
Tack Free [min]	5 - 15
Curing rate [mm/24h]	3,5 - 4,5
Flow from vertical surfaces [+50°C] (ISO 7390) [mm]	0 - 3
Cured - tested after 4 weeks at 23 °C and 50% relative humidity	
Value	
Shrinkage (ISO 10563) [%]	1 - 4
Module at 100% elongation (ISO 8339) [MPa]	1,00 - 1,15
Movement accommodation (ISO 9047) [%]	± 25
Elongation at break (ISO 8339) [%]	90 - 120
Elastic recovery (ISO 7389) [%]	<40
Shore A hardness (ISO 868)	40 ± 5
Temperature resistance [°C]	-40 - +110

## CERTIFICATION

- Product meets requirements of EN 15651-1:2012 F-EXT-INT, 12,5P
- Product meets requirements of EN 15651-3:2012 S Class S 1
- Product meets requirements of EN 13501-1:2007+A1 ; E

## SHELF LIFE & STORAGE

- Warranted shelf life is 12 months from the manufacturing date when stored in unopened, original package at temperature from +0 °C to +25 °C in a dry place protected from freezing.
- Product can be transported at low temperatures up to -30 °C for up to 6 weeks, before using the product should be conditioned for 24 hours at +23 °C. Precautions should be taken when the product after thawing out is frosted again - The product is resistant to 4 cycles of freezing/thawing out.

## SAFETY AND HEALTH PRECAUTIONS

- For detailed information find Material Safety Data Sheet available at producer upon request.
- All written or oral information, recommendations and instructions are given according to our best knowledge, tests and experience, in good faith and in compliance with manufacturer's principles. Each user of this material will make sure in every possible way, including verification of the final product in proper conditions, about suitability of the supplied materials for their intended purposes. The manufacturer is not liable for any losses incurred due to inaccurate or erroneous application of the manufacturer's materials.

Surface	Adhesion
Aluminium	+ / -
Cast iron	+
Galvanized sheet	+
Stainless steel	+
Ceramic tile	+
Glass	+
Raw wood (pine)	+ / -
Hard PVC (polyvinyl chloride)	+ / -
Granite	+
Marble	+

- + Good adhesion
- ± Partially adhesive detachment
- All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on product hardening conditions (c.a., ambient, surface temperature, quality of used equipment and skills of person applying the product).