



شركة رائع للصناعة المحدودة

Dermax Industrial Company

TECHNICAL DATA SHEET

UNITREE FIX A11 PRO

Nail Free Glue

Adhesive for general purposes

Technical Overview and Applications:

UNITREE FIX All PRO Nail-Free Glue (General Purpose Adhesive) is a high-strength, multipurpose construction adhesive designed to bond various materials without the need for drilling or nailing. It offers a load-bearing capacity of 250kg per 10cm² and is suitable for both interior and exterior applications.

TYPICAL USES:

- ✓ Heavy-duty bonding of stone, metal, and wood
- ✓ Mirror installation
- ✓ Bonding of kitchen and bathroom tiles and fixtures
- ✓ Industrial component fixing

KEY FEATURES:

- ✓ Exceptional load capacity: 250 kg per 10 cm²
- ✓ High adhesion strength: 8.3 N/mm²
- ✓ Fast curing: Tack-free in 2–3 hours
- ✓ High hardness: Shore A 60–65 (per ASTM D2240)
- ✓ Eco-safe formulation: Free from formaldehyde and lead
- ✓

COLORS

- ✓ UNITREE FIX All PRO Nail-Free Glue is available in White and Transparent.
- ✓ Special color orders may require lead time and minimum order quantities.

Technical Parameters:

Properties	Test Method	Unit	Specifications
Chemical Base			Modified Silicone Polymer
Cure Mechanism			Moisture
Cure Type			Oxime
Joint Movement Capability	ASTM C719	%	± 25
As Supplied @ 25°C, 50% RH			
Color			White, Transparent
Consistency	Visual		High viscosity paste
Specific Gravity	ASTM D1475	g/cm ³	Approx. 1.4
Flow Properties	Practical test	mm	0 (Non-sag)
Skin Over Time	ASTM C 679	minutes	~30 (fast-curing)
Tack Free Time	Field test	hours	2-3
Depth Cure, 24 hrs	ASTM C881	mm	~ Full depth
As Cured - 7 Days @ 25°C, 50% RH			
Hardness (Shore A)	ASTM D2240	Points	30-90
Tensile Strength	SASO 2070	N/mm ²	8.3
Non - Volatile Content	GB/T 2793	%	62.0
Adhesion/Peeling Strength	SASO 2070	N/mm ²	8.3
Elongation	ASTM D 412	%	≥150
23°C Tensile Modulus /MPa	GSO 2022:2010	MPa	Approx. 5.0
Service Temp.	Field verified	°C	-30 to +80
Application Temperature	ASTM C1442	°C	5 to 40

Note:

- ✓ Curing time (skin-over time and tack-free time) may vary depending on climatic conditions during application.
- ✓ The information provided in this data sheet is subject to change without prior notice and should not be used for writing formal specifications.

PACKAGING

- ✓ **UNITREE FIX All PRO** Nail-Free Glue is available in standard caulking cartridges (300 ml).
-

SURFACE PREPARATION

- ✓ Before application, conduct adhesion tests on actual project substrates.
 - ✓ All surfaces must be thoroughly cleaned with alcohol or acetone to remove oil, dust, and other contaminants, then allowed to completely dry prior to adhesive application.
-

JOINT DESIGN

- ✓ **UNITREE FIX All PRO** is designed exclusively for static joints with no movement capability.
 - ✓ A recommended bond line thickness of 1–3 mm is required.
 - ✓ For structural applications exceeding 100 kg load, supplemental mechanical fastening is mandatory.
-

TOOLING AND FINISHING

- ✓ Apply adhesive within 15 minutes of surface preparation using a continuous "Z-pattern", spaced 40 cm apart.
 - ✓ Immediately press substrates together, allowing a 5-minute window for position adjustments before the initial set occurs.
-

CLEANUP AND REMOVAL

- ✓ Uncured adhesive can be cleaned with xylene or similar solvents.
 - ✓ Fully cured adhesive requires mechanical grinding or sanding for removal.
 - ✓ Clean tools with appropriate solvents immediately after use.
-

LIMITATIONS

- ✓ Not paintable.
 - ✓ May stain porous natural stones.
 - ✓ Compatibility testing is required when bonding to sensitive metals.
 - ✓ Not recommended for applications requiring flexibility or joint movement.
-

STORAGE AND SHELF LIFE

- ✓ Store in original packaging below 27°C (80°F) in dry conditions.
- ✓ Shelf life: 18 months from manufacturing date under proper storage.

HANDLING PRECAUTIONS

- ✓ Ensure adequate ventilation during use.
- ✓ Avoid contact with eyes and skin.
- ✓ In case of accidental contact, rinse with water and seek medical attention.

SAFETY STATEMENT

- ✓ KEEP OUT OF REACH OF CHILDREN
- ✓ KEEP CONTAINER TIGHTLY CLOSED
- ✓ FOR INDUSTRIAL & PROFESSIONAL USE ONLY

DISCLAIMER

- ✓ The information and data provided herein are believed to be accurate and reliable. However, it is the user's responsibility to determine the suitability of the product for specific applications.
 - ✓ As the supplier cannot anticipate all possible uses and conditions, no warranties are given regarding fitness for a particular purpose.
 - ✓ Dermax reserves the right to modify product properties without prior notice.
-



مختبرات ويمبي
WIMPEY LABORATORIES



GERMAN
TECHNOLOGY

