Technical Data Sheet v.1, May 2025

PATTEX NMN ULTIMATE 3 IN 1

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CHARACTERISTICS

All purpose, one-part, elastic joint sealant and multipurpose adhesives for indoor and outdoor applications based on Flextec®-Technology.

- Good elasticity - movement capability 20%
- Excellent adhesion to a wide range of construction materials without primer
- High initial tack
- Can be applied to damp surfaces without bubbling or losing adhesion (unlike PU sealants)
- Very good UV-, weather and ageing resistance, color stability and ageing resistance – no surface cracking or crazing or yellowing.
- Phthalate-free
- Silicone-free
- Free of hazardous isocyanates
- Solvent-free
- Non-corrosive
- Good gunnablity even at low temperatures
- Nearly no shrinkage during curing
- Good compatibility with paints – can be painted over after curing
- Impact and vibration absorbing

APPLICATION FIELD

PATTEX ULTIMATE 3 IN 1 bonds well on a wide variety of substrates and is recommended for use in elastic sealing and bonding applications:

- Connection joints, e.g. joints between wood/aluminium/PVC-window or door frames and brickwork, for stairs, balconies, terraces, soundproofing of pipes between concrete and sheathing and many more
- Installing (bonding and sealing) of windowsills, skirting boards, covering boards, stair steps, tiles, fittings etc. bonding of baseboards, crash protection boards, stucco, metals, wood, stoneware, prefabricated elements and many more
- Filling/sealing of cracks
- Joints and seam seals in metallic and wooden construction

STANDARDS

Conforms to EN ISO 11600	Class F-20HM, sealant for building construction
Conforms to EN 15651-1 (CE marking)	Class 20HM, product type F-EXT-INT: sealant for facade for interior and exterior application
GEV EMICODE®	EC 1^{plus} (very low emissions)
VOC emission class (France)	Class A+
EN 15301-1	Reaction to fire: Class E

INSTRUCTIONS FOR USE

PATTEX ULTIMATE 3 IN 1 is supplied ready to use and can be applied from the cartridge using a standard air or hand operated gun, with no special pre-treatment.

Sealing application:

After joint and substrate preparation, insert cartridge into sealant gun and firmly extrude PATTEX ULTIMATE 3 IN 1 into joint making sure that it is full contact with the side of the joint. Fill the joint, avoiding air entrapment. PATTEX ULTIMATE 3 IN 1 must be tooled firmly against joint sides to ensure good adhesion. After application, the product can be smoothed with soapy water before skinning for a perfect sealant surface.

Bonding application:

After substrate preparation apply PATTEX ULTIMATE 3 IN 1 in spots on the bonding surface at intervals of a few centimeters. Use hand pressure to set the element to be bonded into position. If necessary, use adhesive tape, wedges, or props to hold the assembled elements together for the initial hours of curing. An incorrectly positioned element can be easily unfastened and repositioned in the first few minutes after application. Apply pressure again. Optimum bonding will be obtained after complete curing of PATTEX ULTIMATE 3 IN 1, i.e. after 24 to 48 hours at +23°C for a thickness between 2 to 3 mm.

Filling application:

Plug or fill small holes by applying the sealant directly to the area to be filled, making sure to fill the space without leaving any gaps. The amount to use depends on the depth and size of the area to be filled. Remove any excess immediately. Screw the cap back onto the cannula to preserve any unused product. Clean tools and nozzle with a dry cloth after use.

NOTES ON APPLICATION / LIMITATIONS

Elastic sealants may only be painted over if the coating is able to follow the movements of the sealant (in general if joint movements are <5%, depending on the coating) – otherwise cracks in the surface of the coating can occur. In case of high movement joints coatings may cover the joint sides to max. 1mm. Due to the large number of coatings, it is recommended to test the compatibility of a coating product before use, especially in case of alkyd resin paints. When painted over PATTEX ULTIMATE 3 IN 1, alkyd resin paints may dry slowly and show surface tackiness and/or discoloration. In case of powder coated substrates (e.g. powder coated aluminum window frames) an adhesion test is recommended before use.

Do not use PATTEX ULTIMATE 3 IN 1 as a glazing sealant.
Do not use on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents which could attack the sealant.
Do not use PATTEX ULTIMATE 3 IN 1 to seal bathtubs or washbasins.
Not recommended for copper and brass.
Not suitable for natural stones (e.g. marble).

Not suitable for joints with water pressure or permanent water immersion, e.g. in swimming pools.

Color deviations may occur e. g. due to exposure to chemicals or high temperatures. However, a change in color does usually not affect adversely the technical performance or the durability.

Product may only be used for mirror bonding if the mirror coating and the protective lacquer complies with EN 1036-1. In case of unknown mirror qualities please ask mirror producer for an approval.

TECHNICAL DATA

UNCURED PRODUCT

Chemical base	Flextec-Polymer (Moisture curing silane modified polymer (SMP) - cures by reaction with atmospheric humidity.)	
Odour	Alcohol	
Application temperature, °C	+5 to +40 (substrate and ambient)	
Consistency	Non-slum paste	
Density, g/ml	~ 1.39	ISO 2811-1
Skin formation time, minutes	~ 20	23°C, 50% r.h.
Curing speed, mm/hours	~ 2/24	23°C, 50% r.h., bead 20x10mm
Initial tack, g/cm^3	~> 10	
Consumption, m	12 nfor a 0.5m diameter beam	

CURED PRODUCT

Odour	Odourless	
Shore A hardness	~ 40	ISO 868
100% Modulus	~ 0.75	ISO 8339-A
Elongation at break, %	~ 250	ISO 8339-A
Elongation at break, %	~ 310	ISO 8339-B
Elastic recovery, %	~ 85	ISO 7389-B
Tensile strength, N/mm^2	~ 0.9	ISO 8339-A
Shrinkage, %	~ -3	ISO 10563
Movement capability, %	20	ISO 11600-F
Recommended joint width, mm	10-35	
Service temperature, °C	-40 to +80	

GENERAL INFORMATION

Surfaces

The substrates to seal or bond must be clean, free from oils, grease, dust and loose particles and should be dry. Standing water should be removed. Remove residues of old sealant/adhesive. Use acetone, spirit, isopropanol or special cleaners to remove residues of oils or grease. The product is suitable for many types of construction materials: concrete, brick, tile, ceramics, fibre-concrete, galvanized steel, stainless steel, iron, painted metals, lacquered aluminum, anodized aluminum, wood, melamine, PVC etc. No adhesion to PE, PP, PTFE (Teflon®), PMMA (acrylic glass). In cases of unknown materials or critical applications adhesions tests are recommended or contact our Technical Service.

Storage

12 months from date of production if stored in unopened original cartridges, in dry conditions and protected from direct sunlight at temperatures between +10°C and 25°C.

Chemical resistance

Resistant to water, seawater, diluted alkalis, diluted acids, cement grout and water diluted detergents. The product is not recommended for applications with permanent contact with chemicals. Poor resistance to aromatic solvents, organic acids, concentrated alkalis and concentrated acids, chlorinated hydrocarbons. In cases of other chemicals contact our Technical Service.

Packaging

Recycled cartridge (packaging containing at least 75% recycled materials)

Colors

White

HEALTH AND SAFETY

Before using the product, please see related Material Safety Data Sheet that is available on request.

DISPOSAL

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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