Technical Data Sheet

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Pattex weathering resistant sealant & adhesive

FT101-T

Transparent

CHARACTERISTICS

- Flextec™ -Polymer
- Environment friendly
- Seal-Bond-Fill
- Indoor & outdoor application
- Over painting after curing
- Applied on damp surfaces
- Bonding on wide variety materials

INTRODUCTION

Pattex FT101 are elastic joint sealant and multipurpose adhesives for indoor and outdoor applications based on Flextec™-Technology.

APPLICATION FIELD

FT101-Transparent bonds well on a wide variety of substrates and is recommended for use in elastic sealing and bonding applications:

1) sealing and bonding applications where a high transparent appearance of the seal / bond is favorable.
2) sealing and bonding applications which require extreme clean application (e.g. close to rough/structured surfaces, natural wood, parquet etc., which are difficult to clean when contaminated with typical non-transparent products).

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3) 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.
4) 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.
5) joints and seam seals in metallic and wooden construction.
6) bonding of glass in indoor applications (e.g. bonding of glass plates to furniture).

CHARACTERISTICS

- Seal-Bond-Fill
- high transparency
- indoor and outdoor application
- can be applied to damp surfaces without bubbling or losing adhesion (unlike PU sealants)
- good UV-, weather and ageing resistance
- good elasticity and ageing resistance – no surface
- no Phthalates adding
- no isocyanates adding
- no Benzene, Toluene, Xylene, Formaldehyde adding
- low VOC, satisfied EC1 plus
- 0 grade mould resistance

INSTRUCTIONS FOR USE

Pretreatment

1) The substrates to seal or bond must be clean, free from oils, grease, dust and loose particles and should be dry.
2) 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.

Sealing application

1) The joint width must be designed to suit the movement capability of the sealant. In general, the joint width must be <= 10 mm. A width to depth ratio of ~ 1: 1 must be maintained.
2) After joint and substrate preparation, insert backing rod (closed cell, PE-foam backing rods) to required depth and apply primer if necessary. Insert cartridge into sealant gun and firmly extrude FT101-Transparent into joint making sure that it is full contact with the side of the joint. Fill the joint, avoiding air entrapment. FT101-Transparent must be tooled firmly against joint sides to ensure

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good adhesion.

3) Masking tape must be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant has still not formed a skin.
4) After application, the product can be smoothed with soapy water before skinning for a perfect sealant surface.

Bonding application

1) After substrate preparation apply FT101-Transparent in strips or 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.
2) Optimum bonding will be obtained after complete curing of FT101-Transparent, i.e. after 24 to 48 hours at +23°C for a thickness between 2 to 3 mm.

Cleaning tools

Clean tools and application equipment with white spirit immediately after use. Cured material can only be removed mechanically (e.g. with knife).

TECHNICAL DATA

Item	Description
Appearance	Paste
Color	Transparent
Application temperature (substrate and ambient)	+ 5 to + 40°C
Density (ISO 2811-1)	Approx. 1.0g/cm^3
Skin formation time	10-30 min
Shore A hardness (ISO 868)	~35
Elongation at break (ISO 8339-A /GB/T13477.8)	~ 200%
Shrinkage (ISO 10563)	~ -3%
Movement capability (ISO 11600-F)	20%
Temperature Resistance after cured	-40 to + 80°C

The above information applies at normal ambient conditions, +23±2ºC and 50±5% relative air humidity.

NOTES/LIMITATIONS

1) 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) –

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otherwise cracks in the surface of the coating can occur.

2) In case of high movement joints coatings may cover the joint sides to max. 1 mm.
3) 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 FT101-Transparent, alkyd resin paints may dry slowly and show surface tackiness and/or discoloration.
4) In case of powder coated substrates (e.g. powder coated aluminum window frames) an adhesion test is recommended before use.
5) Do not use FT101-Transparent as a glazing sealant.
6) Do not use on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents which could attack the sealant.
7) Not suitable for joints with water pressure or permanent water immersion, e.g. in swimming pools.
8) Do not use FT101-Transparent to seal bathtubs or washbasins. Not recommended for copper and brass.
9) Not suitable for natural stones (e.g. marble).
10) 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.
11) 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.
12) FT101-T are not recommended for 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.

CHEMICAL RESISTANCE

1) 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.
2) Poor resistance to aromatic solvents, organic acids, concentrated alkalis and concentrated acids, chlorinated hydro-carbons.
3) In cases of other chemicals contact our Technical Service.

STANDARDS

- Q/0601LCTS17

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- GB18583
- GB/T1741
- GB33372

PACKAGING

280 ml in plastic cartridges

SHELF LIFE

12 months with completed package stored in dry and shadow places. Optimal temperature: 5 ~ 25℃.

HEALTH AND SAFETY

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

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