

QUILOSA PROFESSIONAL PU 50 Construction General Sealing and Bonding

Medium-high modulus, high-quality polyurethane for sealing and bonding. Especially formulated to ensure an excellent adhesion on most building materials, to resist weather conditions and absorb movement on expansion joints, mainly on floors. It also is a very good adhesive for construction elements like metal, concrete or roofing tiles.



BENEFITS

- Single component. No previous mixing is necessary.
- Adheres without primer to most of construction materials.
- Able to withstand dynamic efforts.
- It does not attack alkaline materials or corrode metals.
- High cracks / gaps filling capacity.
- It does not shrink
- Absorbs vibrations and noise
- It can be painted.

RECOMMENDED USES

- Elastic adhesion of construction elements (roofing tiles, socles, screens, etc.).
- Sealing of joints between partitions. Brick partition and dry partition.
- Sealing between frameworks and constructions surfaces and between frameworks.
- Sealing and adhesion in the industry in general (ventilation, conditioned air, automobile, containers, caravans, etc.)
- Joint sealing in floors and pavements.
- Joints subject to shocks or vibrations.
- Filling of cracks and fissures.
- Application both indoors and outdoors.

NORMS / ATESTS / CERTIFICATES

Mark CE

- EN 15651-1 F EXT-INT-CC / EN 15651-4 PW- EXT- INT- CC

Additional information

- "A + Certificate". Product with very low emissions. Determination of Volatile Organic Compounds according to ISO 16000.
- Clasification LEED 2009 Credit EQ c4.1 (Adhesives and sealants). Method SCAQM Rule 1168. VOC content < 250 g/l.

TABLES

Sealing depth will be chosen depending on the width of the joint, according to the following Table (values in mm.):

WIDTH	5/6	7/9	10/12	12/15
DEPTH	5	6	7	8

TECHNICAL DATA

Appearance	Value
Homogeneous creamy paste	+
Uncured	Value
Slump resistance (ISO 7390) [mm]	< 3
Tack free (ASTM C-679-71) [min]	60 - 120
Curing rate (23°C and 55% h.r.) [mm/24h]	3
Application temperature [°C]	+ 5 a + 40
Cured, (4 weeks at 23°C and 55% H.R.)	Value
Similar to rubber	+
Shore A hardness (ISO 868)	30 - 40
Modulus 100% (ISO 37) [MPa]	0.5 - 0.7
Tensile strength at break, ISO 37 [MPa]	1 - 2
Elongation at break (ISO 37) [%]	> 500
Movement accommodation factor [%]	25
Temperature resistance [°C]	-40 - +80
Chemical resistance	Value
Water, soapy water, brine	+
Oil, fuel, hydrocarbons	+
Inorganic diluted acids and alkalis	+

METHOD OF USE

Prior to application, read safety instruction presented in MSDS.

Surface preparation

- Surfaces to be sealed must be clean and dry.
- Cement slurries must be removed.
- If necessary, in addition to mechanical means, cleaning with non-grease solvent such as acetone is

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recommended.

- Joints width must be at least 4 times greater than the maximum foreseen movement.
- Depth of sealant is chosen on the basis of the joint's width, according to the table (in mm):
- For joint widths greater than 16 mm, and up to 35 mm depth must be one half of width.
- The joint must have an width between > 5 mm and ≤ 35 mm.
- In facade and floor expansion joints the ratio of width to depth will be 2:1, with a minimum sealing depth of 10 mm.
- A filler should be used in order to avoid adhesion of product to the bottom of the joint, this would exercise unnecessary tension on the sealant. Meanwhile, regulation of its depth is achieved as well as greater yield. The material to be used must be inert, mechanically stable, homogeneous, corrosion-resistant, and must not adhere to either the sealant or contiguous materials.
- A particularly recommendable product is closed-cell polyethylene foam, extruded in regular-section strips, such as our POLITEN-CEL.
- For joints that are to be subjected to major stress, we suggest the use of a primer, appropriate for each type of substrate.
- PRIMER C-15: For porous materials and general construction use (GRC, concrete).
- PRIMER C-29: On plastics and some metals. (See technical information).

Product preparation

- Cut off cap from adapter nipple.
- Screw the nozzle on the cartridge.
- Clip the tip of the nozzle to required opening.
- Insert it into applicator gun.
- The temperature of the product must not be lower than {temp}°C.
- To avoid extrusion difficulties, when necessary, the cartridges can be heated to a temperature between 15 and 20°C in a water bath.

Application

- Fill in the appropriately treated joint with product.
- For a better finish, protect the edges of the joint with adhesive tape and smooth with a spatula, removing the tape before the sealant forms skin.
- Instructions for bonding:
- Apply the adhesive on one of the parts to be joined, either in waves or in fine, short and discontinuous braids.
- Assemble the pieces and press them.
- Minimum application temperature {temp}°C.

Works after completion of application

- Fresh product is easily removed with an organic solvent. When cured it can be removed by mechanical



mean only.

- Requires no protection from the weather.

Remarks / restriction

- The following formula is an approximate guideline to calculate foreseen yield:
- Yield: $L = V / (A \times D)$, where, L = Length of sealant in metres obtained per container. V = Volume of the container. A = Width of the joint in mm. D = Depth of the joint in mm.
- It can be painted with acrylic paint.
- However, due to the great diversity of varnishes and paints, it is recommended to do a preliminary test.
- The drying time of alkyd resin based paints may increase.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Gluing union resistance: a minimum surface of 16 cm² (for example two points of 2x2 cm²) will be need to glue for each 5 kg of weight.

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ADDITIONAL INFORMATION

Not suitable for double glazing application, nor for plastic materials with high plasticizer content.

Do not cure in the presence of curing silicones.

Not suitable for joints in permanent immersion in water or other liquids.

Avoid exposure to high levels of chlorine.

Do not apply when moisture vapor transmission exists since this can cause bubbling within the sealant.

Light color tends to yellow slightly when exposed to ultraviolet rays.

Do not use in contact with bituminous/asphaltic materials.

A variation in color does not influence the mechanical properties and performance of the product.

Color variation may occur, due to chemical composition, high temperature and/or ultraviolet radiation (especially in white).

Before using on natural stone, contact the Technical Department.

Chemical Resistances: +++ Excellent / ++ Very Good / + Good / -- Very bad / - Bad / * Consult.

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TRANSPORT / STORAGE

Keep in a cool, dry place.

Store in its original closed package.

Shelf life: {months} months.

CATALOGUE DATA

Nominal capacity / volume / size	Colour	Number of pieces per collective package	Index	EAN Code
300 ml	RAL 1015 light ivory	12	10042338	8411729039707
300 ml	red	12	10042336	8411729039547
600 ml	black	12	10043239	8411729345952
600 ml	brown	12	10043238	8411729345877
600 ml	grey	12	10003751	8411729345792
600 ml	white	12	10043237	8411729345617
600 ml	RAL 9001 white cream	12	10043625	8411729461027

SAFETY AND HEALTH PRECAUTIONS

This product contains isocyanates, and must therefore be used in zones with adequate ventilation, avoiding breathing in vapours and any contact with the skin or eyes.

Contains reduced amounts of flammable solvent.

During the application of the material, ensure good ventilation, avoiding the proximity of objects or devices that produce flame or embers.

Before consuming food, smoking, etc., they should wash their hands.

For more information request Safety Data Sheet.