p-404 is polyurethane putty for sealing joints. Specially recommended for sealing movement joints outdoors. Indoor and outdoor use.

This reticular putty when in contact with dampness does not give off odors, thus becoming an extraordinary adherent, elastic and resistant elastomer to atmospheric agents.

**Recommended use**
- Sealing joints even between materials sensible to chemical attack.
- Sealing movement joints in floors and walls.
- Bonding of building materials like ceramics, concrete, roof tiles, wood, aluminium, polyester, or PVC.
- Gluing ceramic materials on metal or wood boards.
- Gluing access floor pedestals.
- Gluing ceramic to the butech's ventilated facade system structure: DIT 530/11
- Gluing concept xps panels.

**Materials**
- Ceramic tiles and glass mosaic.
- Glass.
- Metal.
- Plastic material, PVC.
- Concrete slabs.
- Wood.
- concept xps panels

Before applying the p-404 putty on a ceramic wall covering not stated in the previous listing, please perform a test or check with butech’s Technical Department.

**Substrates**
All usual substrates for ceramic tiles laying.

**Characteristics**
- Single-component polyurethane putty.
- High elasticity. Can withstand movements up to 20% of the sealed joint width.
- High adherence.
- Resistant to UV rays.
- Frost-resistant.
- It can be painted with water-based paints.

**Instructions for use**
Preparing the substrate.
The surfaces on which p-404 is to be applied shall have the following characteristics:
- Residual humidity under 3%.
- Clean of dust, grease, or any other substance that may compromise the bonding material adherence.
- Compact surface, free of cracks, non-crumbling.
- Smooth texture, efflorescence-free.

In very absorptive or inconsistent substrates, it is recommended to apply a primer to strengthen the substrate cohesion and reduce water absorption. We recommend the use of uniprim . synthetic resin-based primer.

When applying on movement joints, we recommend protecting the sides of the joint with adhesive tape. This will make the cleaning of the joint easier.

When applying on movement joints, the ratio between width and depth will be the following:
- Joint under 10 mm Width: 1 Depth: 1
- Joint between 10 and 30 mm Width: 2 Depth: 1

If the depth is greater than the thickness of the putty seam to apply, we recommend filling the bottom of the joint with closed-cell compressible material such as polyethylene seams or expanded polystyrene.

Applying the putty throughout the joint.
Introduce the p-404 cartridge into the applicator gun, pierce the end, screw in the nozzle, and cut it at 45 depending on the diameter of the putty seam to apply.

Apply the p-404 seam on the joint, continuously and uniformly. Avoid forming air bubbles in the seam.

Before the putty hardens, define the shape of the seam with the necessary rounded shape tool for each case. We recommend wetting the defining tool with soap and water.

Applying the putty as an elastic adhesive.
Introduce the p-404 cartridge into the applicator gun, pierce the end, screw in the nozzle, and cut it at 45 depending on the diameter of the putty seam to apply.

Apply the p-404 seam on the substrate to bond, with the quantity deemed necessary. Instead of applying dots or blobs, we recommend applying putty seams separated by 10-15 cm.

Press the two surfaces to stick together, in order to distribute the adhesive uniformly. The final putty thickness shall not be greater than 3 mm.

Performance
- 2 x 2 mm Joint 77.5 m
- 3 x 3 mm Joint 31.4 m
- 5 x 3 mm Joint     20.6 m
- 5 x 5 mm Joint     12.4 m
- 8 x 4 mm Joint     8.6 m
- 8 x 6 mm Joint     6.4 m

**Cleaning and maintenance**

- Before laying, and in order to avoid later problems, it is recommended to consult the supplier’s technical data sheet for the type of wall covering used, and check that it is not sensitive to polyurethane putties.
- Clean up any remaining putty before it hardens. Be extremely cautious with non-slip floors, absorbent stone, or tiles with relief surface.
- Once the laying is carried out, clean the tool with methylated spirit or acetone before the remains harden.
- Check the supplier’s maintenance instructions for the type of wall covering used.

**Conservation**

12 months in its original container and protected from moisture and the weather. Store in a dry place, covered and protected from direct sunlight.

**Safety and hygiene**

- In some cases, there have been allergic reactions from inhaling this putty. It contains isocyanates.
- Please take the usual precautions in the use of chemicals, such as using gloves and safety goggles.
- Safety data sheets available to the professional user who requests them.

**Additional instructions**

- Do not use on surfaces covered in dust or that disaggregate easily.
- Do not use on dirty surfaces, or surfaces covered with any element that may interfere with the adherence.
- Do not use on wet surfaces. Protect from rain and frost at least during the first 24 h.
- Do not apply when the temperature is below 5 °C or higher than 35 °C.

- The layout, width, and construction details of the perimeter and intermediate movement joints, as well as the materials to be used, should be included in the ceramic tile laying design.
  - Heed the structural joints present in the substrate.
  - Make movement perimeter joints in corners, floor level changes, and height differences in material changes.
  - As a general rule, make intermediate movement joints that delimit areas as square as possible, 16-25 m² indoors, and 50-70 m² outdoors. They shall have a minimum width of 8 mm.

- The technical information contained in this technical data sheet has been collected from approved laboratory tests and under the conditions indicated by the corresponding standards.
- For more information about this product, check with Butech’s Technical Department.

Technical Sheet Conditions
- This is not a finished product technical sheet. It belongs to a laying material which, together with other products and materials, configures a ceramic tile laying system. Instructions in this technical sheet have been written based on our experience and technical expertise, but they have to be only considered as general recommendations which, together with those for the rest of the products in the system, guide the laying professionals in their job.
  - As it is not possible to know all the features and conditions of a building job, professionals must consider it and, if deemed appropriate, perform a previous test to confirm whether the product is suitable for the job.
  - The technical sheet cannot reflect all the applications and conditions entailed in the use of a material, so, in situations not described in this sheet, we recommend to perform a previous test and refer to our technical department.
- This sheet has been updated in January, 2013.
Technical data

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Colored thixotropic paste</td>
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<td>Smell:</td>
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<tr>
<td>Hazard</td>
<td>Irritant (see material safety data sheet)</td>
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<tr>
<td>Storage time</td>
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<tr>
<td>Specific weight</td>
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<td>Application temperature</td>
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<td>Initial cross-linking</td>
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<tr>
<td>Final hardening</td>
<td>24 h / 3 mm thickness</td>
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<td>Shore A Hardness</td>
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<td>Elasticity modulus</td>
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<tr>
<td>Elongation</td>
<td>ISO 8339 600 %</td>
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<tr>
<td>Resistance to acids and diluted bases</td>
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<tr>
<td>UV light fastness</td>
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<tr>
<td>Resistance to saline fog</td>
<td>Excellent</td>
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<tr>
<td>Heat resistance</td>
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Data obtained in standard laboratory conditions, at 23 °C and 50% relative humidity.

References

<table>
<thead>
<tr>
<th>KEA</th>
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