s-502

s-502 is a high-performance acetic silicone putty for sealing joints. Specially recommended for sealing joints in bathrooms and for sealing perimeter joints in wall tile coverings. It has anti-fungal properties that prevent the appearance of black spots in damp environments.

This reticular putty, when in contact with dampness gives off acetic acid, thus becoming an extraordinary elastic and resistant elastomer to atmospheric agents. Indoor use.

Recommended use

- Sealing joints in ceramics, glass, metal, plastics and painted surfaces.
- Sealing joints between ceramic wall coverings and ceramic bathroom fixtures, bathtubs, showers, or countertops in kitchens and bathrooms.
- Sealing perimeter joints in wall tile coverings.
- Sealing glass and woodwork.
- Sealing and gluing bathroom elements such as screens and cabins.
- Gluing ceramic materials on wood boards.

Materials

- Ceramic tiles and glass mosaic.
- Glass.
- Plastic material.
- Do not use with materials which are sensible to the action of acids, like marble or other natural stones.

Before applying the s-502 **putty** on a ceramic wall covering not stated in the previous listing, please perform a test or check with **butech's Technical Department**.

Substrates

Do not use on substrates which are sensible to the action of acids:

- Screeds and floors with cement mortar.
- Concrete

Characteristics

- Single-component acetic silicone.
- High elasticity. Can withstand movements up to 20% of the sealed joint width.
- Excellent adherence.
- Resistant to UV rays.

Instructions for use

Preparing the substrate.

The surfaces on which s-502 **is 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.
- Free from any material that is sensible to acid attack.

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

When applying on joints, the ratio between width and depth will be the following:

- Joint under 5 mm Width: 1 Depth: 1
- Joint from 5 to 20 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 s-502**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 s-502 **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 s-502 **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 s-502 **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

$$\text{Consumption (ml / cartridge)} = \frac{310}{\text{width joint (mm) x depth joint (mm)}}$$

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 acetic silicone.
- Clean any putty remains with an organic solvent such as ethyl acetate or gasoline, 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 an organic solvent such as ethyl acetate or gasoline.
- 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

S-502 is slightly irritating to eyes and skin.

Please take the usual precautions in the use of chemicals, such as using gloves and safety goggles. Use in well ventilated places.

Safety data sheets available to the professional user who requests them.

Additional instructions

- Do not apply on materials that are sensitive to acid attack, such as cement mortar or limestone.
- Do not use on heavily laminated surfaces or bituminous materials.
- Do not apply outdoors or in floors subjected to heavy traffic.
- 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 40 ° C.
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- 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 m^2 outdoors, and 50 m^2 -70 m^2 indoors. 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

Appearance	Transparent thixotropic paste, white or grey
Smell:	Characteristic
Hazard	Slightly irritant
Storage time	12 months in a dry place
Specific weight	1.03 g/cm^3
Application temperature	5 ° C to 40 ° C
Initial cross-linking	12-20 min.
Final hardening	24 h / 3 mm thickness

Shore A Hardness	DIN 53505	21
Elasticity modulus	DIN 53504	0.4 N/ mm^2
Maximum elongation	DIN 53504	550 %
Breaking strength	DIN 53504	1.6 N/ mm^2
Resistance to acids and diluted bases	Excellent	
Mildew resistance	Good	
UV light fastness	Good	
Resistance to solvents	**Good**	
Heat resistance	-30 ° C to 180 ° C	

Data obtained in standard laboratory conditions of at 23° C and 50% relative humidity.

References

KEA	SAP	Product description	Packaging	Palletizing
B82301001	100005808	**s-502 white**	310 ml cartridge	24 Cartridge box
B82301002	100005809	**s-502 transparent**	310 ml cartridge	24 Cartridge box

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