



## Repair express easy to knead (FCB)

Technical Data Sheet  
Revision: 06/10/2006

### Glues, refills and seals

- Description:** **Reactive epoxy putty.** It doesn't contain solvents.  
**Easy to knead and apply.**  
Fast. High resistance. Maximum hardness
- Scope:** **Glues, refills and seals.**  
To fix, rebuild and mend all types of materials:  
wood, metal, ceramic, glass, brick, plaster,  
cork, plastics excepting for PE, PP and Teflon
- Examples: bath and kitchen accessories' glueing, such as towel rails, mirrors, clothes racks, broom racks, spice racks, mixers and hangers; refilling of holes; rebuilding of broken hinges, ceramic containers; handles fixing, doorstops, and phones; steps repairs, chairs and all pieces of furniture; sealing of small water leaks in pipes and heaters.
- Instructions of use:**
- **Surface preparation:** Surfaces to be bonded must be dry, dust- and oil-free. Roughen surfaces wherever possible.
  - **Putty preparation:** **Put on latex or vinyl gloves.**  
**Cut a piece of the Pattex repair express putty** with a knife, cutter or scissors.  
**Take off the transparent film** wrapping the piece that is going to be used. Wrap the rest of the putty and keep it in the tube in a dry, cool and sunlight-free place.  
**Knead** the piece as if it was plasticine until the blue colour vanishes and an homogeneous and white mass is obtained.
  - **Application of product:** The maximum application time is **3 minutes** after mixing (at 23 °C).  
The putty should be applied before the dough starts to heat.  
This heating indicates that the blue component is reacting with the white

one.

After 6 minutes the highest temperature (approx. 65°C) is reached, but afterwards it cools again.

*To glue:* apply the putty on one of the surfaces to be joint and join both of them. To glue bigger surfaces, apply several putty points.

*To refill :* apply the mix in the crack or hole and smooth down the surface before the product starts hardening.

*To rebuild:* mould the desired shape with your hands and smooth down the surface before the product starts hardening.

### Product properties:

#### - Curing time:

The product is hard after **5-7 minutes** of having started to knead it.

This time can vary depending on the mixed product amount, the thickness of the applied layer, the kneading time and on the room temperature.

As a guidance value, if 10g of product are used and a ball is made with them, the product cures after 5 minutes (23°C).

#### - Handling and mechanizing time:

**15 minutes** after application, the joint pieces can be handled (15 min: shear strength  $\geq 10$  Kg/cm<sup>2</sup>, beech wood, 23°C) and the product can be mechanized, roughened and painted.

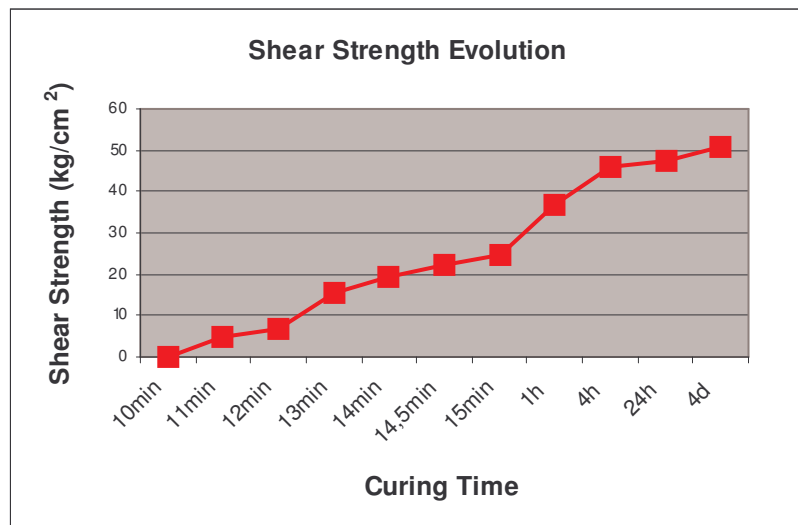
After **15 minutes** about 50% of the final shear strength (23°C) is reached.

#### - Total curing time:

After **24 hours** (23°C) the maximum shear strength is nearly reached.

Then, the joint pieces can be subjected to big strains.

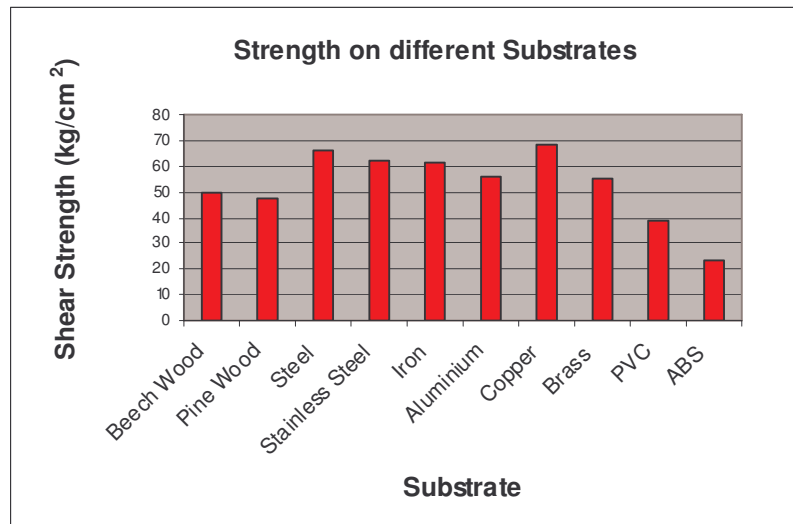
Temperatures lower than 23°C or water contact, delay the product hardening.



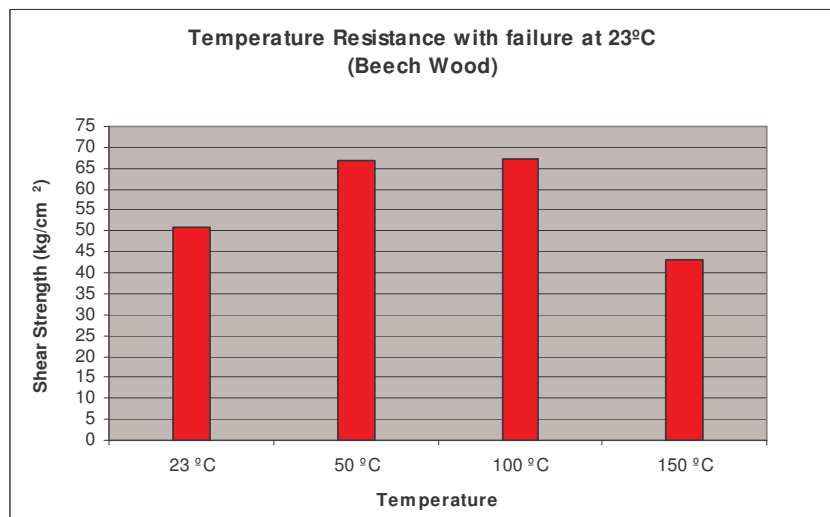
**Characteristics of cured putty:**

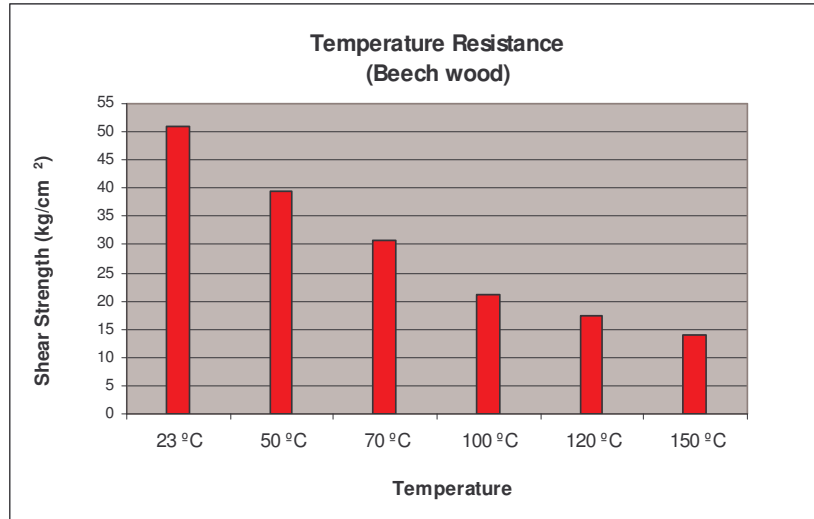
- Colour: Blueish **white**.

- Shear strength resistance: (EN 1465) Approx. **60 kg/cm<sup>2</sup>** (23°C, depending on the material)



- Thermic resistance: **-30°C a +150°C** when the product is not subjected to high strains.  
**-30°C a +70°C** when the product is subjected to high strains





**- Shore D hardness**

Approx. **70° Shore**

**Other properties:**

Hardens even under the water.  
The volume remains the same after curing.  
Good water, oil and common solvents resistance.  
Good kneadability even at low temperatures.

**Practical advice:**

Use ethanol, ketone or any other universal solvent to clean the putty remains before they harden. Once it has hardened it can only be mechanically removed, using a scraper.

**Packaging:**

Cylindrical **48g** putty.

**Storage conditions:**

The product should be stored at a temperature between **+10°C and +25°C** and protected from the sunlight.

**Storage time:**

2 years if kept closed in its original container, in the above mentioned conditions. After this time, product may still be suitable for use, but it is recommended to check it or to ask our Technical Service.

**Important**

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must verify by themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.



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