

FLEX JC 2K

FLEXIBLE JOINT COMPOUND
TWO-COMPONENT · CRACK-BRIDGING

PRODUCT DESCRIPTION

FLEX JC 2K is a pre-packaged two-component cementitious product; mixed together, the components form a mortar of high adhesion and high flexibility, used to treat joints between precast concrete wall panels, CFC boards and plasterboard, and to treat cracks in concrete and in cement-based mortar surfaces.

QUICK SPECIFICATIONS

PACKAGING	07kg/set · 35kg/set
COMPONENT	Powder + liquid, 2.5 : 1 (powder : liquid) by weight
COLOUR	Grey or off-white
COVERAGE	0.4kg per linear metre — 10cm wide, 2mm thick
MINIMUM JOINT WIDTH	2mm
WAITING TIME BETWEEN LAYERS	~2 hours
WAITING TIME BEFORE FINISHING	24 hours
SUBSTRATE TEMPERATURE	8 - 35°C
CURING	No curing required
SHELF LIFE	06 months (unopened container)
STORAGE CONDITIONS	Cool, dry, well-ventilated place



ILLUSTRATIVE IMAGE Applying FLEX JC 2K and bedding glass-fibre mesh into a panel joint



ILLUSTRATIVE IMAGE Flat joint, invisible once painted

USES

- Treat **joints and cracks** thanks to its high adhesion and flexibility
- **Application surfaces:** Cement board · Plasterboard ceilings · Precast concrete wall panels · Concrete block · Concrete · Cement-based render surfaces

SUBSTRATE REQUIREMENTS

- **Substrate temperature:** from **8°C to 35°C**; the minimum workable joint width is **2mm**
- **Joints between precast concrete panels:** clean thoroughly with a wire brush and dusting brush, ensure a minimum patching depth of 5mm, and dampen the surface before application
- **Cracks in cement render or concrete:** cut a V-groove at least 10mm wide × 5mm deep with a cutting machine, and wash out dust with water before application
- **The substrate must be free of standing water before application**

MIXING

- Pour **10kg** of the liquid component into the mixing vessel
- Slowly add **25kg** of powder to the liquid component (powder : liquid ratio 2.5 : 1) and mix to a uniform consistency
- Slow-speed mixer **~300 - 600rpm**, mix until uniform — avoid over-mixing
- Allow the mix to stand for **3 minutes** then remix; if the mix has stiffened slightly, remix without adding water
- **Use the mixed mortar within 1 hour**

APPLICATION

- Use a steel or plastic trowel to apply **the first layer** along the joint, with a minimum applied width of **10cm**
- Insert **reinforcing glass-fibre mesh** while the mortar is still wet, or fix the mesh over the joint before applying the mortar
- Allow the first layer to dry for about **2 hours**, apply the second layer to cover the mesh completely, to a final thickness of about **2mm**
- Allow to dry **24 hours**, apply a thin skim coat to make sanding easier
- Allow to dry for at least **24 hours** more, then sand down and apply the finishing paint system

TECHNICAL DATA

Property	Standard	Result
Adhesion strength to the concrete substrate after 28 days	ASTM D4541-22	≥ 0.5MPa
Crack bridging ability	BS EN 14891:2017	≥ 0.75mm
Elongation at break	ASTM D412-16(2021)	≥ 20%
Maximum tensile strength	ASTM D412-16(2021)	≥ 1.0MPa
Shore A hardness	ISO 868:2003	≥ 65
Waiting time before finishing	–	24 hours

The above results and recommendations are based on laboratory testing; actual performance may vary depending on the application method and specific site conditions

SAFETY INFORMATION

- **Skin and eyes:** the powder component contains alkaline Portland cement; minimise direct skin and eye contact throughout mixing of the two components
- **Eye contact:** rinse immediately under continuously running clean water for 10 - 15 minutes without rubbing the eye; if discomfort persists, seek medical attention
- **Protective equipment:** Gloves · Face and eye protection · Protective clothing
- **Working environment:** work in a well-ventilated area; avoid inhaling dust when adding the powder component to the liquid component
- **Storage:** reseal both components tightly after use and store in a dry place out of reach of children
- Consult the **Safety Data Sheet (SDS)** latest edition on the official BUMATECH website, or contact our technical department

PRECAUTIONS & DISCLAIMER

- Always carry out a trial application on a small area before full-scale work, to assess adhesion, coverage and compatibility with the substrate under actual site conditions
- Apply only when the substrate temperature is between 8°C and 35°C
- **Do NOT use the product in movement joints or structural joints**
- Use the white grade where a skim coat and emulsion paint finish are to follow
- The product contains Portland cement and silica sand and may cause skin irritation on prolonged contact; do NOT swallow and avoid inhaling product dust. Keep out of reach of children
- The figures in this document are established by laboratory testing under standard conditions; actual values vary with temperature, humidity, accompanying materials, application method and workmanship. It is the user's responsibility to verify suitability for the intended use
- BUMATECH accepts no liability for loss arising from use outside the intended purpose, application contrary to these instructions, or combination with incompatible materials not confirmed in writing; we reserve the right to update technical information without prior notice. Check the latest TDS edition on our website before each project

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