Technical Data Sheet

Properties:

AKEMI® COLOUR BOND P+ is a gel-like 2-component product based on epoxyacrylate resins dissolved in styrene.

The product is characterized by the following properties:
- very good workability due to very smooth, slightly gel-like consistency, does not form filaments
- very fast hardening (15 - 40 minutes)
- very good surface drying
- excellently polishable
- easy dosing and mixing by using the cartridge system
- cartridge system with a working time of 6 minutes
- wide colour palette available – more than 50 colours – for a seamless bonding of many quartz types
- improved protection against yellowing
- improved adhesion and bonding strength, also on Techno Ceramic
- very good adhesion on quartz as well as on natural and artificial stone even at higher temperatures (60 - 70°C/140 - 158°F; in case of low exposure to strain 100 - 110°C/212 - 230°F)
- resistant to water, petrol and mineral oils
- when properly applied, the hardened product is classified as harmless to health for bondings of natural and artificial stone as well as ceramics upon contact with food
- COV contents according to ASTM D2369: 12 g/L; determined by an external testing institute; fulfils LEED v4 EQc2 SCAQMD Rule 1168 for Multipurpose Construction Adhesives

Application Area:

AKEMI® COLOUR BOND P+ is mainly used for a colour-adjusted bonding of quartz, e.g. Caesarstone®, Silestone®, Zodiaq®, Corian®, natural stone, ceramics and large-size Techno Ceramic (e.g. Dekton®, Lapitec®, Neolith®, Laminam®, Kerlite®, Maxfine) in industry and handycraft.

Instructions for Use:

- Without mixing nozzle: dosing apparatus only
- With mixing nozzle: dosing and mixing apparatus at the same time

1. Thoroughly clean, dry and slightly roughen surfaces to be bonded.
2. Remove the clasp from the cartridge and put the cartridge in the gun; work the grip until material emerges from both openings; then eventually screw up the mixing nozzle. Do not use the first 10 cm pressed out of the mixing nozzle.
3. Both components must be thoroughly mixed when working without mixing nozzle.
4. The mixture is workable for approx. 5 - 7 minutes (20°C/68°F).
5. After approx. 20 - 30 minutes work can continue on the cured adhesive (grinding, milling, drilling).
6. The hardening process is accelerated by heat and delayed by cold.
7. Tools can be cleaned with AKEM® Nitro Dilution.

Special Notes:

- For professional use only.
- Use afin® Liquid Glove to protect your hands.
- An adhesive which has already thickened or just gelling, should not be used anymore.

AKEMI GmbH · Lechstraße 28 · 90451 Nürnberg · Germany
Tel. +49(0)911-64296-0 · Fax +49(0)911-644456 · www.akemi.com

Technical Data Sheet

- The bonding layers should be as thin as possible (< 1mm) due to shrinkage (approx. 5 - 8%) caused by the high reactivity of the adhesive as well as development of heat during the hardening process.
- Non-durable resistance of bondings which are frequently exposed to humidity and frost.
- Only moderate adhesion on fresh, alkaline building material (e.g. concrete, concrete bricks).
- The hardened COLOUR BOND P+ has a very slight tendency to yellowing.
- Once hardened, COLOUR BOND P+ can no longer be removed by solvents. Removal is only possible mechanically or by higher temperatures (> 200°C/392°F).
- Use only original AKEMI® mixing nozzles.
- It is recommended to remove the mixing nozzle after use and close the cartridge with the original clasp. Before you screw up a new mixing nozzle, make sure that material emerges from both openings.
- Within the EU: subject to the self-service prohibition regulation and shall only be sold by specialized sales outlets.
- For proper waste disposal the container must be completely emptied.
- Recycling in accordance with the guidelines of EU Decision 97/129 EC on the Packaging Directive 94/62/EC.

Technical Data:

Colour:	different
Density:	approx. 1.10 g/cm³
Working time:	
at 10°C:	10 - 16 minutes
at 20°C:	5 - 7 minutes
at 30°C	3 - 5 minutes
Mechanical properties:	
Bending strength DIN EN ISO 178:	70 - 80 N/mm²
Tensile strength EN ISO 527:	40 - 50 N/mm²
Compressive strength DIN EN ISO 604:	100 - 110 N/mm²

Storage:

If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 12 months from production.

Health & Safety:

Read Safety Data Sheet before handling or using this product.

Important Notice:

The above information is based on the latest stage of development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trails of the product, in an inconspicuous area or fabrication of a sample piece.

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