



TECHNICAL DATA SHEET
LEO-POX-5020

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DESCRIPTION

LEO-POX-5020 is a gel form, transparent, UV resistant, non- yellowing, moisture tolerant, structural adhesive with 2:1 mixing ratio, hardening in 45 min. It can be used when a precise and sensitive adhesion surface is needed (>1mm). It features high bonding strength and bearing capacity. Cured LEO-POX-5020 is a stone like yet elastic, chemically inert, high strength, solid and does not change on aging. The hardened product is stress free and retains strength and elasticity over a range of temperatures from above 90°C to as low as -30°C without softening or embitterment.

Key Features & Advantages:

- Crystal-clear, UV-resistant and non-yellowing
- High tensile and compressive strength
- Moisture-tolerant and chemically inert
- Easy 2:1 mixing ratio
- Gel-like, non-sag consistency
- Sets in 30 minutes at 25°C 90% cure within 1 hour
- Does not stain or dehydrate even delicate stones
- Service temperature range: -30°C to +90°C Can be machined after 45 minutes of curing
- Excellent adhesion even on metallic and polished surfaces

UV resistant, non-yellowing

- Smooth and easily workable, simple 1:1 mixing ratio
- Non-sag on vertical or overhead surface,
- sets in 30-minutes at 25°C
- 90% cure within 1 hour at 25°C
- Very high strength permanent bonds
- Tensile and compressive strength superior to concrete
- Excellent chemical resistance
- Can be machined after 45 minutes cure at 25°C

TECHNICAL DATA

Consistency	Epoxy gel
Color	Milky white transparent
Mix Ratio by volume	2:1
Loading Time at 25°C	120 minutes
Pot life at 25°C	45 minutes
Full cure at 25°C	24 hours
Tensile shear strength	>20Mpas
Elastic deformation at 20 Mpas shear stress	2.5%
Tensile bond strength	10 Mpas
Compressive strength	80 Mpas
Flexural strength	15 Mpas
Coefficient of linear expansion	40 mm per °C 10-6

Civil Engineering Applications

LEO POX 1520 is a specially formulated, non-sag epoxy filling paste and structural adhesive. This user-friendly two-part epoxy system sets quickly after mixing and delivers exceptional performance, making it ideal for the following applications:

- Bonding, filling, and repairing pre-cast concrete components
- Grouting of bolts and anchoring systems
- Restoration of concrete floors, stairs, and columns
- Bonding bricks, ceramics, fiber glass elements, and metals
- Strengthening institute-formed concrete structures
- Its high bonding strength, chemical resistance, and excellent durability make it suitable for demanding engineering environments.

APPLICATION FOR MARBLE, GRANITE, PORCELAIN AND OTHER STONES

LEO POX 1520 is specifically engineered for the stone processing industry and is ideal for bonding natural stones such as marble and granite, as well as cast stone, sintered porcelain, terrazzo, and concrete. It is also compatible with various other materials including rigid plastics (PVC, polyester, polystyrene, ABS, polycarbonate), wood, and paper. Thanks to its gel-like, non-sag consistency, LEO POX 1520 ensures excellent vertical and overhead stability, while still allowing for precise, thin joint applications. It provides strong, durable adhesion without staining or dehydrating even the most sensitive stone types.

In addition to bonding, LEO POX 1520 effectively reinforces fragile or porous stones by sealing internal cracks and structural faults—enhancing both appearance and strength. This minimizes the risk of breakage during handling, transportation, or installation, making it a dependable solution for demanding stone applications.

APPLICATION AREAS

LEO POX 1520 is specifically engineered for the stone processing industry and is ideal for bonding natural stones such as marble and granite, as well as cast stone, sintered porcelain, terrazzo, and concrete. It is also compatible with various other materials including rigid plastics (PVC, polyester, polystyrene, ABS, polycarbonate), wood, and paper. Thanks to its gel-like, non-sag consistency, LEO POX 1520 ensures excellent vertical and overhead stability, while still allowing for precise, thin joint applications. It provides strong, durable adhesion without staining or dehydrating even the most sensitive stone types. In addition to bonding, LEO POX 1520 effectively reinforces fragile or porous stones by sealing internal cracks and structural faults—enhancing both appearance and strength. This minimizes the risk of breakage during handling, transportation, or installation, making it a dependable solution for demanding stone applications.

STORAGE AND SHELF LIFE

Store LEO POX 1520 in its airtight, original containers at temperatures not below 10°C. When stored correctly, the product has a shelf life of up to 2 years. Ensure containers are kept tightly sealed to prevent contamination or moisture ingress.

PACKAGING: 2.25Kg (1.500gms + 750gms)

CAUTION & SAFETY MEASURES

- Keep the container tightly closed during and after use.
- Apply LEO POX 1520 (A + B) only on clean, dry surfaces.
- Avoid contact with eyes and skin — may cause irritation.
- Do not inhale vapors or fumes. Use only in well-ventilated areas.
- In case of eye contact, flush immediately with plenty of water and seek medical attention.

TECHNICAL SUPPORT

Manufactured By Industrial 9-Warehouse, Behind Shirawi Enterprise, Ras Al Khor Industrial Area 2, Dubai, UAE

India Facility: 1025/1/A, Babla Compound, Gaibi Nagar, Kalyan Road, Bhiwandi, Maharashtra – 421302

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