

TECHNICAL DATA SHEET

Epoxy Putty

K- SEAL General Purpose

DESCRIPTION:

K-SEAL GP epoxy Putty is ideal for repairs due to its quick setting time. Create rock hard sealing bond. Within 1-2 hour of application, the affected surface can be used. Can be moulded in different shapes. Resistant to most commonly used solvents. High tensile and shear strength.

K-SEAL GP epoxy Putty is a two component hand mixable, fast setting at room temperature for quick and permanent repairs for your projects, easy to use multi-purpose putty for plumbing and non-plumbing applications.

K-SEAL GP epoxy putty that mixes in one minute to provide fast repairs to multiple surfaces. It is supply as two sticks of different colours, wrapped and sealed separately.

K-SEAL GP epoxy putty has been developed to meet various requirements in electrical, mechanical, civil and allied engineering fields and in domestic applications.

K-SEAL GP epoxy Putty is useful in sealing, gripping, joining & insulating variety of surfaces like ferrous and non-ferrous metals, porcelain, ceramic, marble, granite, ivory, asbestos, glass, wood, leather, many rigid plastics. Use to seal pipes, fix leaks in tanks and drains, repair appliances, tools, furniture, toys, automotive parts, pools and cracks in concrete etc.

K-SEAL GP epoxy Putty on curing exhibits tough & long lasting bond and sets into a hard mass that can be sanded, drilled, filed, tapped, machined, cut and then painted. It has very good electrical insulating properties and It is neither affected by normal heat/moisture nor by mild chemicals.

APPLICATION :

GENERAL/HOUSEHOLD:

- ◆ Sealing leakages of water pipelines , storage tanks and sewage pipelines.
- ◆ In Handicraft to make various moulds and sculptures, In houses to close ant/cockroach holes.
- ◆ Filling gaps in aluminium sliding window, channels and concrete.
- ◆ Fixing loose screws on wall, to build wooden articles eaten by white-ants or metallic structure affected by corrosion and many other unlimited applications.

INDUSTRIAL:

- ◆ Ideal for sealing blowholes, cracks, and leakage in ferrous & non-ferrous casting, pumps and mould boxes.
- ◆ It gives smooth finish to joints & corners and sealing holes/cracks in wooden and metal patterns.
- ◆ Sealing of leakage/cracks in metal fabrications, industrial vessels, boilers, hulls of ships, boat and trawlers.
- ◆ Sealing water supply mains, storage tanks, concrete sewer pipes, heat exchanger coils.
- ◆ Repairing of damaged internal threads of various types of machine pumps. Sealing cracks in casings of meters/gear-box.

ELECTRICAL:

- ◆ Sealing fuse and choke units of mercury lamps. Moisture proofing CI and cable joints.
- ◆ Sealing and insulating cable terminators, cable entries into switch boxes, machines etc.
- ◆ Covering and insulating underground and overhead twist-joints of aluminium Conductors.
- ◆ Sealing flanges and cable entry portions of conventional cable-joints/moulds to make them moisture-proof.
- ◆ Sealing leakage in transformers, oil circuit breakers and other oil filled electrical Switch gear.
- ◆ Joining metal parts to porcelain parts of suspension insulators and bonding broken insulators.

AUTOMOBILE:

- ◆ Filling automobile body dents and cracks on the body. Sealing leakage in radiator, diesel/petrol tank, water/fuel pumps, engine blocks, gear boxes, differential, carburetor, battery casing, muffler, silencer, fuel

GENERAL INSTRUCTIONS FOR USE:

- ◆ The surface should be free from dust, rust, oil, paint, varnish, moisture etc. Emery paper or grinder can be used to abrade the surface for better binding. Acetone, petrol, kerosene oil can be used to free the surface from grease/oil.
- ◆ **K-SEAL GP** epoxy compound consists RESIN & HARDENER which are individually wrapped and sealed to be mixed in the ratio of 1:1 by volume or weight.
- ◆ The RESIN (Green) & HARDENER (Black) are in contrast colours to help to know the uniform mixing. Take equal quantity of Resin and Hardener and mix thoroughly with both hands by rolling between two palms until a uniform dark grey colour is attained. It takes about 1-2 minutes to get a uniform mix.
- ◆ As soon as **K-SEAL GP** Resin/Hardener is mixed, the chemical reaction starts immediately and it is advisable to start application on clean substrate as soon as mixing is over. Spreading of adhesive is easy in the first 5-10 minutes, whereas smoothening of adhesive surface with damp cloth is possible up to about 30 minutes from mixing.
- ◆ Keep the unused **K-SEAL GP** Resin & Hardener portion well packed for further use.
- ◆ Do not add solvent/water to facilitate the ease of application of mix. Similarly excess hardener is not to be added to make the setting fast.
- ◆ Since this product is mixed on bare hands, trim fingernails to avoid accumulation of product in the sensitive part.
- ◆ Store **K-SEAL GP** epoxy putty in cool and dry place. Under such storage conditions the shelf life of the product is about 12 months in sealed unopened packs

SAFETY PRECAUTIONS :

K-SEAL GP epoxy putty products are non-flammable, non-toxic & harmless. The resin component is non-toxic, hardener being based on amine type hardener may cause irritation to sensitized skin. Barrier Cream may be used to protect skin while mixing and when the job is over, hands may be washed with soap and water. Any remaining residue will fall off in 1-2 days. Please do not use organic solvents for cleaning hands.

KEEP AWAY FROM CHILDREN.

QUALITY :

We strongly believe in quality which goes hand and hand with customer’s investment in our products. Product is carefully tested to assure that consistent high quality is maintained.

TYPICAL PROPERTIES:

Sr. No.	TEST PROPERTY	UNIT	VALUE
1	Mixing colour	Visual	Dark Grey
2	Mix Density	Gm/cc	2.2 to 2.8
3	Mix Ratio	w/w	1 : 1
4	Working Time	Minute	15 Approx
5	SETTING TIME (Hardening Time) at 30°C for 30g mix by Shore-A	Minute	60 Approx
6	WATER ABSORPTION as per ASTM D-570	%	Max. 0.5
7	TENSILE STRENGTH as per ASTM D-638	Kg/cm ²	Min. 200
8	COMPRESSIVE STRENGTH as per ASTM D-695	Kg/cm ²	Min. 400
9	LAP SHEAR STRENGTH (M.S) as per ASTM D-1002	Kg/cm ²	Min. 70
10	HARDNESS (By Shore-D) as per ASTM D-2240	Scale Value	Min. 80

NOTE :

- ◆ The above typical-properties should not be construed as product specification.
- ◆ We recommend that before using our product in full-scale production, the customer should make his own tests to determine the suitability of the product under his operating conditions. As the circumstances under which our product is stored, handled and used are beyond our control , we can not assume any responsibility for their misuse by the customer.