TECHNICAL DATASHEET

STALOC K-800 STAINLESS STEEL

2K – stainless steel epoxy putty

PRODUCT DESCRIPTION

STALOC K-800 stainless steel is a 2 component epoxy putty filled with high quality stainless steel powder. The product is delivered with a specially modified hardener providing for excellent product capabilities.

TECHNICAL PROPERTIES

ATTRIBUTE	UNIT	SPECIFICATION
basis		epoxy putty with high-quality stainless steel powder
colour		steel coloured
Topfzeit	min	approx. 45 min.
final cure at 24°C	h	4h for 12.5mm layer thickness
curing below 16°C		no full cure
cure speed at 16°C		90 min tack-free 32 h until finally cured
cure speed at 24°C		45 min tack-free 16 h until finally cured
cure speed at 32°C		25 min tack-free 8 h until finally cured
shore hardness (ASTM D170b)		85D
temperature resistance	°C	+121°C
working temperature	°C	+16°C to +35°C
curing shrinkage (cm/cm)		0.0005
viscosity of mixed putty	cPs	350,000
pressure resistance	MPa	58 (ASTM D 695)
tear resistance	MPa	25 (ASTM D 638)
thermal expansion coefficient	(cm/cm C°)	65 x 10^{6} (ASTM D 696)
shelf life at +25°C		approx. 9 months in closed container

PRODUCT CHARACTERISTICS

STALOC K-800 stainless steel kit can be used within a wide area of applications regarding production, repair and maintenance. The product is especially suited for the construction of fixtures, gauges, equipment and appliances.

The product can be used to repair pipes, tanks, drums, machines and other equimpment, made from stainless steel, especially in the food production industry. Our technical experts will assist you with any specific questions that might occur.

- high-quality stainless-steel kit
- for general repair and maintenance of stainless steel as well as for the manufacture of equipment and tools
- temperature resistance from -50°C to +120°C
- can be worked with overhead because of the special hardener
- after complete hardening, can be machined (drilled, milled, ground, etc.)

APPLICATION

Recommended application – further information can be found in the material safety data sheet.

Surfaces need to be sanded or cleaned with a steel brush. Subsequently degrease surface with STALOC assembly cleaner and dry with a clean cloth. Drain hardener (small can) completely into the resin (bigger can) and mix properly, until material is uniform in appearance and colour.

As soon as both components have been mixed properly, an exothermic (heat-emitting) reaction takes place. The exothermic reaction speeds up the curing process. Consequently, bigger volumes cure faster than smaller volumes, respectively thick layers cure faster compared with thinner layers. The chemical reaction causes a minimum shrinkage, not affecting the strength of the material.

The curing speed of K-800 can be further improved when heat is supplied (regardless of whether higher temperature results from higher ambient temperatures, solar radiation, or a lamp). Do not use direct flaming. When repairing metal parts having a lower surface temperature than ambient working temperature, pre-heat the repair spot in order to achieve improved results with STALOC K-800. Subsequently, apply the mixed compound with a putty knife, a spatula or a palette-knife. If you require to treated surface to be smooth, please wet the tool with water before product application. In order to avoid adhesion of the material at undesirable spots, apply release agent. STALOC K-800 does not cure properly when applied at temperatures lower than 16°C.

Attention: If only a part of the kitt is used, ensure that the mixing ratio is as follows: resin/hardener: 100g/13g (weight), 4,65parts/1part (volume). After K-800 has completely cured, it can be drilled, cut, ground, milled, etc. Due to the fact that storage, processing and application are not in STALOC's sphere of influence, we cannot guarantee specific product behaviour or be held liable for any result of applying the product.

SAFETY INFORMATION

Please send your request for the latest version of the material safety data sheet (MSDS).

PACKAGING / VOLUME

500g putty per box (individual containers for resin and hardener)

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