



GEL PATCH 5000

FLEXIBLE, LOW CTE, SHOCK RESISTANT EPOXY

DESCRIPTION

Gel Patch 5000 is a flexible, non-abrasive filled 100% solids epoxy system. It is excellent to patch horizontal and vertical cracks and holes. Gel Patch 5000 is used as an underlayment for tile, ceramics, and marble as well as wood concrete, steel and many other materials. It functions as a permanent waterproofing system. Gel Patch 5000 is a material which exhibits low coefficient of thermal expansion and offers exceptional shock resistance. It is designed in such a way that the mix ratio is 1:1 by volume. Gel Patch 5000 is a room temperature cure, has excellent moisture resistance, and is also dispensable by machine and pneumatic & manual dispensing guns.

PROPERTIES – UNCURED

	Part A	Part B
Color, visual	Clear	Neutral
Viscosity, ASTM-D-2393 (c.p.s. @ 25° C)..	Gel	Gel
Specific Gravity	1.3	1.3
Mix Ratio (volume).....	1:1	
Mixed Viscosity, ASTM-D-2393 (@ 25° C)	Gel	
Pot Life @ 25°C (100 grams)	15-20 minutes	
Shelf Life @ 70° F	6-12 months	

PROPERTIES – CURED

Hardness, ASTM-D-2240 (Durometer).....	Shore D 60-70
Tensile Strength, ASTM-D-638	3,500 psi
Tensile Elongation, ASTM-D-638	25%
Coefficient of Thermal Expansion.....	7 x 10 ⁻⁶
Water Absorption.....	0.1%
Dielectric Strength, ASTM-D-149 (volts/mil)	370
Dielectric Constant, ASTM-D-150	4.5
Dissipation Factor, ASTM-D-150.....	0.08
Volume Resistivity, ASTM-D-257 (ohm-cm).....	7 x 10 ¹²
Thermal Conductivity, (BTU*in)/(hr*ft ² *°F).....	3.5
Temperature Class.....	B

MIXING INSTRUCTIONS

Pre-mix Base and Hardener separately. Then measure material 1:1 by volume. Mix thoroughly scraping the sides and bottom of the container. Apply to clean surface or substrate. For small cracks, mix small amounts. For large cracks, you may mix in quartz sand in equal volume.

CURE SCHEDULE

Room temperature cure @75°F with full properties after 24 hours.