

Technical Data Sheet
TDS-1296-01555

EPG™

Epoxy Gelcoat



Building
&
Transportation



Oil, Gas
&
Industrial



Offshore
&
Onshore



Water
&
Wastewater



PRODUCT DESCRIPTION

The CTech-LLC[®] EPG™ is an epoxy gelcoat for use as a surface coat when making frp based composite parts and gfrp lining of structures.

The CTech-LLC[®] EPG™ epoxy gelcoat works as the external coat of one of the surfaces of the laminate, providing protection against chemicals, weathering, humidity or any aggression from the environment.

ADVANTAGES

- Color quality and stability
- High chemical resistance
- Excellent resistance to a multitude of chemicals
- Heat resistance
- Resistance to abrasion and corrosion
- Resistance to the action of UV radiation and temperature changes
- Can be used where drinking water approval is needed
- Hardly present volumetric shrinkage

TYPICAL USES

- The manufacturing of reinforced parts and moulds/tools with thermosetting epoxy resins.
- Gelcoat for GFRP lining of storage tanks, pipelines etc.

PHYSICAL PROPERTIES

Chemical Base	Epoxy resin
Mixing Ratio (gel coat to hardener by weight)	100:50 Part A: 100 Part B: 50
Color*	Mixed product is grey
Density at 21° C ASTM D792	Mixed product = 2.1 kg/L
Pot Life	90 Minutes at 21° C
Tg** (ASTM D4065)	70°C
Shelf Time	18 months
Storage Condition	Store dry and away from direct sunlight 4° - 40° C

*Different Colors are available by customer's order

INSTALLATION PROCEDURE

MIXING

- Weigh or measure the correct ratio of gelcoat and hardener into a mixing cup. Mix thoroughly until the hardener is dispersed completely and evenly through the gelcoat. The 2 parts should be mixed for a good few minutes to ensure that are fully combined.

APPLICATION

- Apply an even coat of mixed resin to the surface. Be sure that the resin evenly coats all areas of the pattern, including any complex corners etc. The resin should be as thick as possible without falling or running off the part.
- Although not always necessary, two or more layers can be built up to achieve a thicker coating.

STORAGE & SHELF LIFE

- EPG™ epoxy gel coat and hardener should be kept in tightly sealed containers during transport and storage. Both the gelcoat and hardener should be stored in ambient conditions of between 4°C and 40°C.
- When stored correctly, the resin and hardener will have a shelf-life of 18 months.

PACKAGING

- Component A = 20 kg / Component B = 10 kg

CAUTION

All components of resin systems may

cause skin irritation and sensitization. Use of chemical resistant gloves is recommended. Avoid breathing vapors and dust. Get medical attention if you are breathing with difficulty. Resins products can cause strong eye irritation. Avoiding eye contact and Using safety goggles is necessary.