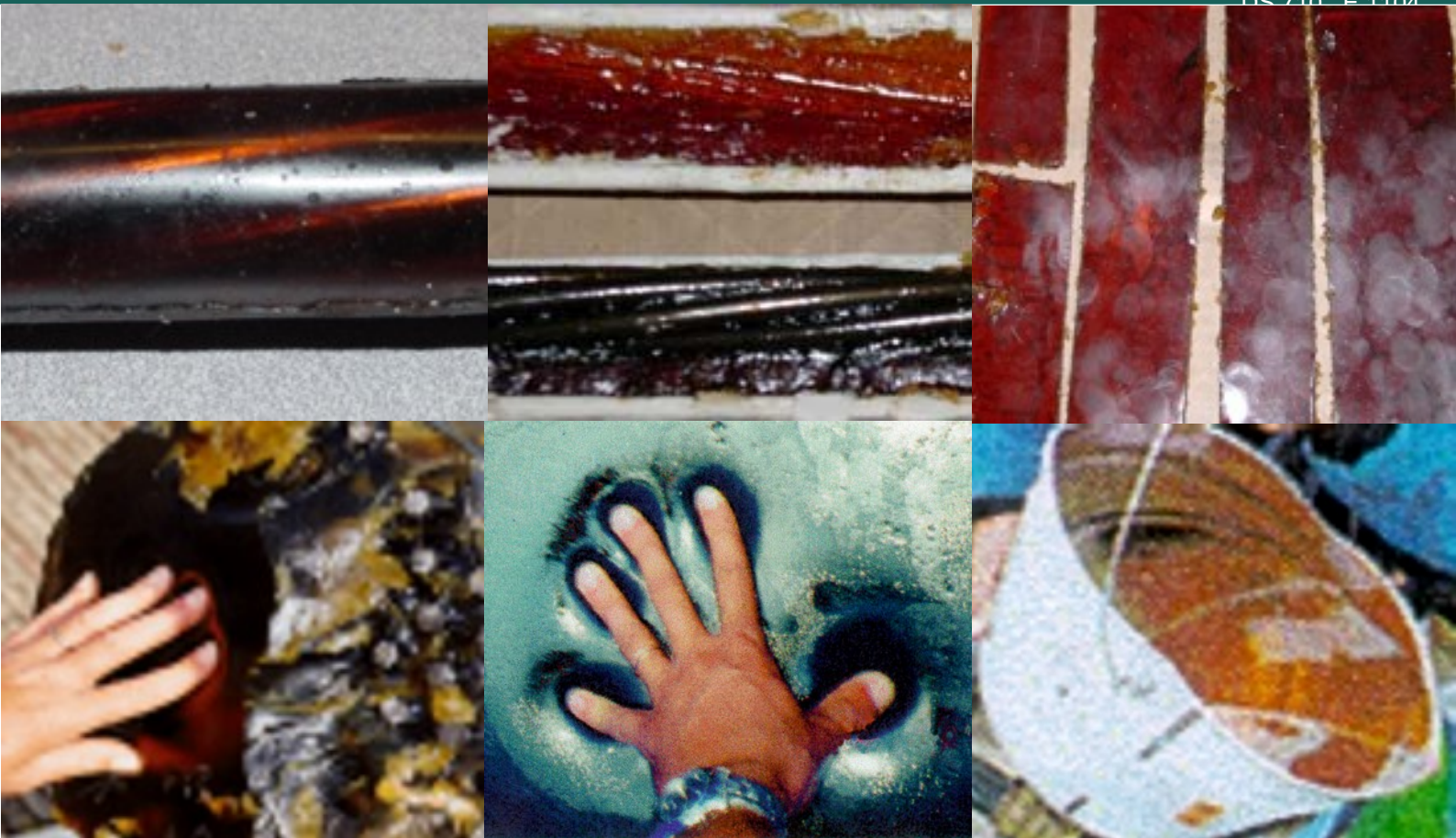


## GEL-EPOXY

DS 710 E 1104



## GEL-EPOXY

Technical Data

**Visco elastic gel of epoxy polymer for lasting long life corrosion protection of high performance materials in civil structures.**

<b>Kind of Product</b>	Special formulated Gel Epoxy resin and hardener components are mixed at ambient temperatures, easily injected to smallest cavities because of it's high viscosity (like water) with low pressure during 12-24 hours and crosslink during polymerization to a visco elastic polymer with adhesive properties as well as damping properties to the system.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Perfect corrosion protection properties</li> <li>• Structure damping properties</li> <li>• Replacement of individual strands possible</li> <li>• Stop of strand corrosion</li> <li>• Simple Mixing and Injection of material with ambient temperatures</li> <li>• Up to 24 hours injection time of mixed material</li> <li>• High viscosity to fill smallest cavities and penetrates all interstices</li> <li>• Low injection pressure required only</li> <li>• High injection quality</li> <li>• High Density against water trapping. Material is lipophilic and hydrophobic</li> <li>• Best chemical and physical resistance</li> <li>• No hydrostatic pressure development during or after polymerization</li> <li>• Volumetric material shrinkage less than 1% during polymerization</li> <li>• No material diffusion to other materials</li> <li>• No temperature increase during polymerization</li> </ul>
<b>Mixing Ratio</b>	Hardener: Resin Ratio = 3:1
<b>Viscosity</b>	At 23°C 500 Pascal after 5 minutes, 900 Pascal after 5 hours, 5000 Pascal after 24 hours
<b>Material Properties</b>	Color yellow-brown, Density 1,05 Kg/l, No water content, Chloride content <5ppm (same as other Petroleum products), Linear expansion coefficient 5,3*-4, Shore hardness <A5,
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Excellent corrosion protection during 3 month exposure in salt spray test</li> <li>• Excellent corrosion protection during 3 month exposure in intermittent salt-water immersion</li> <li>• Excellent corrosion protection even with very thin film cover during 3 month salt spray test</li> <li>• No changes of gel properties at -35°C lab test (beside increased stiffness of course)</li> <li>• Excellent alkaline resistance during 6 month cement grout compatibility test.</li> <li>• Excellent corrosion protection of stressed PT strand in 190 days distilled water test</li> <li>• Excellent mechanical behaviour in 100 cycle thermal test (-25°C to +70°C)</li> </ul>
<b>Mixing and Injection</b>	<ul style="list-style-type: none"> <li>• Mixing of small volumes with electric stirrer and big volumes with automatic mixing devices. Injection by gravity for small volumes and pumps for big volumes.</li> <li>• Maximum injection time 24 hours depending on exposed temperatures.</li> <li>• Recommended installation temperature above 0°C. Best installation temperature 25-30° C.</li> <li>• Slow injection speed from the lowest point to make sure every small air bubble can remove is recommended</li> <li>• For personal health breathing masks and appropriate suits are recommended</li> </ul>
<b>Polymerization Time</b>	7 days at 0°C, 72 hours at 20°C, 12-24 hours at 60°C.
<b>Delivery Quantities</b>	Drums of 60 and 200 Liter. IBC container for 1000 Liter
<b>MSDS classification</b>	Hardener: not dangerous. Resin: IMDG/ARD class 9, Kemler number 90, UN number 3082

**Contact us for more details.**

**Discover PESTEC. Discover our ideas.**

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