

TESAEpoxy Ceramic Wear Compound





Trelleborg's NEW - hard wearing epoxy ceramic is ideal for fast repairs.

Trelleborg's ceramic compounds are demonstrated on some of the equipment that require ceramic reinforced particles that are almost as hard as diamond.

These particles are extremely useful for prolonging wear life.

Trelleborg has been successfully applying ceramic reinforced compounds since 2010, the longevity and durability of our product can be seen in the deflector as shown below.

- **Two part high solids fast setting wear resistant ceramic compound**
- **Ideal for fast repairs**
- **High quality alumina beads gives excellent wear resistance**
- **Trelleborg Rapid Cure can be applied to damp surfaces**
- **Coverage is approximately 2.5kg per m² at 1mm thickness**
- **9 on the MOHS scale of hardness**
- **High crush resistance, good impact resistance**



Product application - Before (April 2010) & After (June 2013)



Trelleborg Performance

TESAEpoxy Ceramic Compound is 83% alumina beads. It will outperform Wear Resist in most applications. It is the ideal all round ceramic repair kit which offers excellent wear resistance.

Normal cure - 60 minutes @ 25°C

Rapid Cure - 40 minutes @ 25°C

TESAEpoxy Ceramic bead is made from high purity Sapphire - Aluminum Oxide which is rated at over 9 on the Mohs scale of hardness.

The ceramics beads have a very high density, extremely high crush resistance, good impact resistance, and minimal inclusions of trapped air.

Properties	Value
Percentage of fines generated @10,000psi	0.7%
Specific gravity	3.56
Aluminium Oxide Content	83%
Solubility in 12/3 HCl/HF Acid [% weight loss]	Absolute Volume [gal/lb] 0.034

Trelleborg Vs Competitors

TESAEpoxy Ceramic Bead – 20x Magnification



Competitor Bead – 20x Magnification



The TESAEpoxy beads shown above consist of a high degree of Alumina content shown by the consistent colour. Colour variation of this bead is characteristic of varying degrees of low alumina contents and various fillers.



Trelleborg Engineered Products is part of the Trelleborg Offshore & Construction business area of the Trelleborg Group. Trelleborg Engineered Products is a leading global developer, manufacturer and provider of engineered polymer solutions to the energy, infrastructure and mining industries. Performing in some of the harshest environments on earth, its principal products are sealing systems for tunnels, a wide range of bearings, polymer solutions for floatover technology and wear resistant products for the mining industry. With local support, a track record of over 100 years and its everyday ingenuity, customers can rely on Trelleborg Engineered Products to deliver innovative polymer solutions that significantly improve the quality, safety and efficiency of its customers' operations worldwide.

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