

POLYMER COMPOSITES

MORSEL

SOLUTIONS

for Metal Rebuilding & Wear Prevention

FOR ON SITE REPAIR, REBUILD DAMAGED PARTS OR PROTECT WEARING SURFACES

Shafts **Flanges** **Bearing Housings** **Pipe bends**
Chutes and Hoppers **Deflector Screens** **Wear Plates** **Centrifuges** **Mixing Bowls**

METAL WEAR PREVENTIVE COATINGS

	Morsel SF 1 2011	Morsel SF 2 2012	Morsel SF 3 2015	Morsel MAF 2017	Morsel Ceramic Carbide 2018	Morsel Ceramic Putty 2025	Morsel Magic Stick 2211
Color	Light Gray	Gray	Light Gray	Gray	Gray	Gray Blackish	Gray Blackish
Working Time*	30 Minutes	30 Minutes	3 Minutes	15 Minutes	10 Minutes	15 Minutes	3 Minutes
Functional Cure*	5 Hrs	5 Hrs	1 Hrs	4 Hrs	4 Hrs	5 Hrs	5 Hrs
Compressive Strength	13750 PSI	13400 PSI	13700 PSI	13700 PSI	12000 PSI	13200 PSI	12000 PSI
Chemical Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Temp. Resistant	132 Degree C	90 Degree C	90 Degree C	165 Degree C	125 Degree C	165 Degree C	121 Degree C
Temp. Resistant	1 Kg	1 Kg	1 Kg	1 Kg	1 Kg	1 Kg	125 Gms
Available Pack							
Description	Engineering grade repair system with extended working life for repairing and rebuilding machinery and equipment. Also used as a high strength structural adhesive for bonding or for creation of irregular load bearing shims with good electrical insulations characteristics.	A two component pour bale liquid filler heavily reinforced with steel powder for casting parts or filling voids under typical dry service. Once hardened it can be machined, drilled, tapped or filed just like steel.	A two component paste grade system based on a silicon steel alloy blended with high molecular weight reactive polymers and oligomers. Developed for high speed emergency repairs, the material is quickly machinable.	A two component paste grade system based on a silicon steel alloy blended with high molecular weight reactive polymers and oligomers. Developed for high compressive strength. When cured the material is durable yet fully machinable.	A two component system based on high molecular weight polymers and oligomers incorporating abrasion resistant ceramic aggregates. This material may be applied from 1/4 inch (6mm) to unlimited thickness onto horizontal or vertical surfaces. The system protects the substrate from abrasive attack.	Wearing Compound combined with the abrasion resistant properties of both large and small ceramic beads and silicon carbide in a trowelable epoxy that protects against the damage of hard sliding abrasion. Thickness of 4-6 mm can be achieved.	2211 Magic Stick is a easy to used repair compound Steel-filled for tough maintenance repair. It applies like a putty and cures to a metal-like finish under typical dry service. Use it to patch pipes, fill casting, bond broken parts
Suggested Surface Application Area	Rough & Sand/Grit Blasted Shafts Hydraulic rams Bearing housings Keyways Engine blocks Casings Pipes Tanks Flange faces Bushing fits Levelling	Rough & Sand/Grit Blasted Tank tops Fire escapes Walkways Vehicle step-ups Loading ramps Chequer plate access areas Conveyor drive drums Brake test rollers Take off and feed rollers Fork lift grab arms	Rough & Sand/Grit Blasted Leaking pipes Leaking tanks Scored hydraulic rams Stripped threads Plastic/metal joints Holed casings Bearing seats Battery terminal posts Broken insulators Ducts	Rough & Sand/Grit Blasted Shafts Hydraulic rams Bearing housings Keyways Engine blocks Casings Pipes Tanks Flange faces	Rough & Sand/Grit Blasted Pipe bends Chutes and hoppers Deflector screens Wear plates Centrifuges Mixing bowls	Rough & Sand/Grit Transport elbows and transitions. Pump liners and impellers. Chute linings and hoppers. Cyclone and separator bodies. Fan blades and housing Scrubbers. Dust collectors and exhausters. Large pump suction	Rough & Sand/Grit Seal chemical tanks Stop leaks in pipes Fill oversized bolt holes Smooth welds Repair holes in elbows, cracks in castings, and holes in gas and fuel tanks Kort nozzles. Pipe elbows, T-pieces.

Safety in Use

- Cold temperature cure ensures no fire risk.
- No shrinkage, expansion or distortion during cure; and no stress or strain on repaired components.
- Excellent electrical insulation characteristics enables use with complete safety on dissimilar metals where bi-metallic corrosion is a problem.

Versatility in Application

- Apply thin or thick sections in one operation.
- Will not slump at up to 1" (25 mm) sections.
- Stays where it is applied even on overhead surfaces.
- Bonds tenaciously to almost any surface including steel, aluminum, copper, brass, stainless steel, fiberglass laminate, concrete, unglazed ceramics and glass.
- Bonds to wet or damp surfaces.
- Moldable to precise contours.
- Machinable with conventional tipped tools.

Proven Quality, Leading Technology