



# Cmend 214

High Strength **Ceramic Putty** for Machining Applications

## Key Features:

- ✧ Excellent adhesion properties to metal surfaces including carbon steel, stainless steel, copper, brass, and aluminium.
- ✧ High resistance to rotating wear and abrasion.
- ✧ Temperature resistance of up to 150°C /wet and 220°C dry contact.
- ✧ Excellent resistance to oil.
- ✧ Easy to mix with a smooth finish.
- ✧ Ambient cool with no external hot work requirement.
- ✧ Excellent resistance to corrosion for long term performance.

## Applications:

- ✧ Repairing, restoring, and rebuilding corroded mechanical parts.
- ✧ Rebuilding and restoing pumps, impellers, and propellers.
- ✧ Protection and restoration of equipment against aggressive abrasion and erosion.
- ✧ High compressive strength to transfer loads to fill and strengthen cracks and voids.
- ✧ Restoring eroded shafts and bearing seats.
- ✧ Restoring and re-facing gears and mechanical tubes.
- ✧ Rebuild bundle tubes face of heat exchanges.

|                                    |                                               |                                     |                         |                                     |
|------------------------------------|-----------------------------------------------|-------------------------------------|-------------------------|-------------------------------------|
| Physical and Mechanical Properties | Mixing Ratio                                  | 3:1 by Volume                       |                         |                                     |
|                                    | Hardness Shore D ASTM D2240                   | 90                                  |                         |                                     |
|                                    | Adhesion (Tensile Shear) ASTM D1002           | Mild Steel – 2,700 psi              |                         |                                     |
|                                    | Pull off Adhesion Ambient Curing ASTM D4541   | 3,500 psi (24.1 MPa)                |                         |                                     |
|                                    | Compressive Strength Ambient Curing ASTM D695 | 13,100 psi                          |                         |                                     |
|                                    | Flexural Strength Ambient Curing ASTM D790    | 9,900 psi                           |                         |                                     |
|                                    | Dielectric Strength ASTM D149                 | 3,500 Volts/mm                      |                         |                                     |
|                                    | Impact Strength un-notched ASTM D256          | 72 J/m                              |                         |                                     |
|                                    | Shrinkage                                     | < 0.02%                             |                         |                                     |
|                                    | Temperature Resistance (wet basis) ASTM D648  | Corrosion: 140°C                    | Light or no Load: 180°C | Filling: 210°C                      |
|                                    | Abrasion Resistance                           | H10 Wheels (Wet) 600mm <sup>3</sup> |                         | CS17 Wheels (Dry) 18mm <sup>3</sup> |
|                                    | Shelf Life at 25°C (68°F)                     | 3 Years                             |                         |                                     |