



# GemCo Limited

## Specialty Epoxy Products

### 4.167 GEMCOAT CR 1:1 HV CHEMICAL & ABRASION RESISTANT PUTTY

#### Composition and Properties

- GEMCOAT CR 1:1 HV is a chemical & abrasion resistant putty.
- It is formulated as a chemical & abrasion resistant lining for pumps, and can be machined before full cure.
- It can be used in many other applications where chemical & abrasion resistance are required.
- It is formulated to have resistance to most concentrated acids & alkalais, and many other commonly used chemicals – consult with GemCo for suitability for use.

#### Physical properties

- Appearance: Base - pigmented paste; Hardener - pigmented paste
- Odour: low odour
- Solids: 100 %
- Coating Type: Epoxy
- Packaging: 2kg two part pack
- Mix ratio: 1 part base :1 part hardener
- Pot Life: 1/2 hour approximately at 20 degrees Celsius (100g mix)
- Coverage: 0.75 sq metres/kg @ 0.5 mm ; 0.13 sq m/kg @ 5 mm DFT.
- Dry hard 4 hours to tack free @ 25 °C ; minimum of 48 hours @ 25 °C before full service OR force cure for 16 hours @ 50° C.

#### Surface Preparation

- Steel : Blast with a suitable abrasive to near white metal (SSPC 10/SA 2.5 standard). If this is not possible remove loose material by mechanical cleaning (grinding or similar).
- Clean surface with solvent based cleaner.
- All surfaces must be free of dust or other contaminants before applying GEMCOAT CR 1:1 HV.

#### Method of Application

- Add 1 part hardener to 1 part base (by volume)
- Thoroughly mix with a drill & mixing blade or mix thoroughly for 2 minutes with a square bladed putty knife – good mixing is important to get good performance.
- GEMCOAT CR 1:1 HV is applied by putty knife or similar.
- Allow to cure 24 hours then if possible then force cure for 16 hours @ 50° C.
- Allow 7 days cure before putting into service.

#### Handling Precautions

- Avoid contact with eyes and skin. Do not ingest. Use with adequate ventilation.
- Use a respirator or separate air feed in confined spaces.
- Protective clothing , eye protection, and gloves should be worn. Keep away from children.
- 1/12/00

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