



**Kinetics Controls & Innovation Ltd**

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## **Mac-Seal**

### **Technical Data Sheet**

**Description:** 2 part sealant compound

**Intended use:** Wellhead isolations, valve isolations, seal-ring groove repairs.

**Features:** No heat transfer, inert to UV, H<sub>2</sub>S/Sour gas, most solvents & Acids

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*Technical data should be considered representative for specific applications contact KCI*

**Typical Physical Properties:** Curing time at 20°C = 4-6hrs. (Product cures faster in high temperatures)  
Hardener ratio 20:1 (Can be altered in consultation with KCI)  
Premix form: Hardener – Clear liquid (UN 1993)  
Compound – Paste (White)

#### **Mixed**

Relative density = 1.8  
Flash Point = >100°C (Closed cup)

#### **Cured**

Shore Hardness = 39(Shore A)  
Tensile Strength = 2.75Mpa      Tear strength = 2.2Kn/M  
Shrinkage = 0.8%  
Colour – Off-white  
Product self-levels whilst moulding to the profile of the filled area.  
Structure: Flexible solid rubberized material  
Operational Temperature -50°C – 250°C

**Area Preparation:** Mac-Seal will sink below water, oil, brine and drill-mud for full displacement of fluids. Mac-seal will also displace plastic packing and heavy grease in thicker viscosities.

**Mixing Instructions:**

1. Add full volume of hardener provide unless discussed otherwise with KCI
2. Only mix product in tubs provided
3. Using spatula provided mix products together until fully mixed.
4. Deploy product immediately after mixing



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**Deployment Instructions:** KCI provide detailed procedures for each application.

**Storage:** Store in a cool dry place.

**Shelf life:** 12 Months

**Expected Lifespan:** Approximately 25 years+ if left undisturbed

**Removal:** For removal the product can be mechanically sheared. Once removed the product is classed as "domestic rubbish" and can be disposed of in conjunction with local regulations (small volumes)

**Precautions:** Please refer to appropriate material safety data sheets (MSDS) prior to using this product.

For technical assistance call KCI on +44 1224 255480 (24hrs)

**Disclaimer:** Information on this data sheet is based on laboratory testing and is not intended for design purposes. KCI make no representations or warranties of any kind concerning this data.

***For advice on specific applications contact KCI on +44 1224 255480 (24hrs)***