

## **Instructions for storage and rust-proofing of gearboxes at short and long time storage**

### **1 General requirements to the storage room**

- Closed room, without shock and vibration, cool, dark, dry, low aeration.
- The storage has to be not nearly to dissolver or dust of dissolver.
- It is not allowed to use protective sheets with flexibilizer.
- Storage temperature: 15°C to 25°C, low aeration.
- Air humidity: 60 - 70%
- Atmosphere with low oxygen contamination.
- Atmosphere with low dust contamination.
- Prevent the contact of the gear box to chemical substances.
- Prevent aeration.
- Prevent the closeness to equipment which produce sparks or electric discharge.
- Prevent the closeness to heat radiation. The temperature of the gearbox must not exceed 25°C.
- Prevent insolation and artificial light with high ultraviolet radiation.

### **2 Short time storage (up to 6 months)**

#### **2.1 Preparing the gearbox**

- Surfaces without lacquer have to be lacquered with protective lacquer corresponding to point 4.

#### **2.2 Recommissioning**

- Warm up the gearbox to normal room temperature (approx. 20°C).
- Do not use a steel brush, sharp tools or emery paper to clean the gearbox.
- Prevent the contact of seals with dissolver, Trichlorethylen, Tetrachlorocarbon and carbon hydride.
- Remove the protective lacquer carefully.
- Check the condition of the rotary shaft seals. If there are any damages visible, replace the rotary shaft seals.
- Perform a functional check of the gearbox.

### **3 Long time storage (more than 6 months)**

#### **3.1 Preparing the gearbox**

- Rotary shaft seals: Gearbox has to be equipped with rotary shaft seals with dust lip (type AS).
- Surface of the gearbox: Housing has to be lacquered by the customer or has to be ordered in lacquered definition. A base coat isn't adequate. Damages of the lacquer have to be repaired before the storage.
- Surfaces without lacquer have to be prepared with protective lacquer corresponding to point 4.
- Oil filling: The gearbox has to be filled completely with the specified oil. The venting filter has to be replaced by a plug screw.

#### **3.2 Recommissioning**

- Warm up the gearbox to normal room temperature (approx. 20°C).
- Do not use a steel brush, sharp tools or emery paper to clean the gearbox.
- Prevent the contact of seals with dissolver, trichlorethylen, tetrachlorcarbon and carbon hydride.
- Remove the protective lacquer carefully.
- Remove the oil completely and replace all rotary shaft seals.
- Fill in oil as described in the operating instructions.
- Remove plug screw and fit the venting filter to the gearbox (therefore please see the corresponding lubrication drawing).
- Perform a functional check of the gear box.

### **4 Protective lacquer**

- We advise to use our protective lacquer with our part 150100.
- Use the lacquer as described on the packaging.