THIS METHOD STATEMENT COVERS THE PREPARATION MIXING & APPLICATION OF **MasterSeal GG and PG 470**.

METHOD STATEMENT: MasterSeal GG and PG 470

Note:

Joint size

Joint size may range from a minimum of 5mm to a maximum of 50mm wide. Joints with cyclic movements should have a width: depth ratio 2:1 and designed so total movement does not exceed the 25% M.A.F. related to the joint width. Sealant depth shall not exceed joint width.

Minimum sealant depth specified:

5mm for metals, glass and other impervious surfaces.

20mm for joints exposed to hydrostatic pressures.

5mm below flush for joints exposed to traffic.

Maximum depth for joints wider than 30mm shall be 16mm.

1. APPLICATION PROCEDURE:

JOINT PREPARATION SURFACE TREATMENT:

1.1. **Concrete and masonry:**

Surfaces must be clean and dry. Wire brush thoroughly and remove dust and all contaminants.

1.2. **Metals:**

Clean to bright metal. De-grease the surfaces with clean cloth soaked in oil-free cleansing solvent.

1.3. **Wood (bare):**

Wood surfaces must be clean and dry, cut back or abrade where necessary to sound timber. Ensure surface is dust free.

1.4. **Glass and glazed materials:**

Thoroughly clean the surfaces with clean cloth soaked in oil-free cleansing solvent.

1.5. **Coated surfaces:**

Coating should be removed and the surfaces treated as above.

1.6. Place closed cell foam backer rod in the joint, set to the correct depth for the application. If the base of the joint slot is set at the correct depth, place de-bonding tape in the bottom of the joint to prevent three sided adhesion taking place.

2. PRIMING:

2.1. The correct primer shall always be used.

2.2. Porous surfaces (such as concrete and masonry) use **MasterSeal P 101**.

2.3. Non-porous surfaces (such as metals, glass and glazed surfaces use **MasterSeal P 101.**

2.4. Application of primer shall not be carried out below 5°C.

2.5. A single coat of primer shall be applied by brush to the opposing joint faces.

2.6. Do not apply primer to the backer rod or bond breaker tape.

2.7. The primer shall be allowed to dry tack free before applying **MasterSeal 470**.

2.8. **MasterSeal 470** shall be applied within 3 hours of primer, otherwise re-priming will be necessary.

3. APPLICATION TEMPERATURES:

3.1. **MasterSeal 470** should be applied only when the ambient temperature is between 5°C and 40°C.

3.2. Do not apply to concrete in direct sunlight when temperatures are rising, as air / vapour expelled from the concrete can form bubbles / blisters in the sealant.

3.3. When the temperature is below 10°C storage at room temperature for several hours will ease mixing and application.

4. MIXING:

4.1. Mix and use one complete unit at a time. Do not sub-divide.

4.2. **MasterSeal 470 Gun Grade** is supplied as a two-component kit with the curing agent contained within the tin on a dividing membrane. **MasterSeal 470 Pouring Grade** is supplied as a two-component kit with the curing agent supplied in a separate smaller tin.

4.3. Combine the curing agent with the base material and mix for 5-10 minutes using a suitable paddle fitted to a 500 rpm electric drill moving the paddle completely through the mass of the material. Ensure ALL curing agent is removed from its tin and combined with the Base material.

4.4. The sides and base of the larger container should be periodically scraped down with a palette knife to ensure all of the curing agent is completely blended with the base compound.

4.5. Failure to completely disperse curing agent throughout the base compound will result in uncured sealant. Once mixed, **MasterSeal 470** should be used immediately.

5. APPLICATION:

5.1. **MasterSeal 470 Gun Grade** is formulated to be applied using a sealant gun but may be applied by trowel if required.

5.2. Select a nozzle of a suitable size for the application and then fill the gun with sealant.

5.3. The sealant should be gunned into the joint using an even trigger pressure, cleaning the nozzle occasionally to avoid contamination.

5.4. Deep joints shall be filled in two or more runs, forcing the sealant into the bottom and sides of the joint to prevent air entrapment and to ensure a good bond.

5.5. Once the sealant has been applied, a small timber, metal or plastic spatula, should be used to compact the sealant into the joints and to achieve a smooth polished finish. Any masking tape which has been applied should be removed before the sealant cures.

5.6. Mixing and application equipment should be cleaned immediately after use.

5.7. **MasterSeal 470 Pouring Grade** is formulated to be liquid and simply poured in to the prepared joints directly from the tin once mixed correctly.