

MasterSeal[®] NP 1

Elastomeric, polyurethane sealant for interior and exterior use

THIS METHOD STATEMENT COVERS THE SURFACE PREPARATION, MIXING & APPLICATION OF **MasterSeal NP 1**

METHOD STATEMENT: MasterSeal NP 1

1. JOINT PREPARATION:

- 1.1. The number of joints and the joint width should be designed for a maximum of +/- 25% movement
- 1.2. The depth of the **MasterSeal NP 1** should be ½ the width of the joint. The maximum depth is 13 mm and the minimum is 4 mm. Refer to Table 1.

Table 1

Joint Width in (mm)	Sealant depth at midpoint in (mm)
4 mm	4 mm
6 – 13 mm	6 mm
13 – 19 mm	6 – 10 mm
19 – 25 mm	10 – 13 mm
25 – 38 mm	13 mm

- 1.3. In deep joints, the **MasterSeal NP 1** depth must be controlled by Closed-Cell Backer-Rod or Soft Backer-Rod. Where the joint depth does not permit the use of a backer-rod, a bond breaker (polyethylene strip) must be used to prevent three-point bonding.
- 1.4. To maintain the recommended **MasterSeal NP 1** depth, install backer-rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed-Cell Backer-Rod should be about 3 mm larger in diameter than the width of the joint to allow for compression. Soft Backer-Rod should be approximately 25% larger in diameter than the joint width. The sealant does not adhere to it, and no separate bond-breaker is required. Do not prime or puncture the backer-rod.

2. SURFACE PREPARATION:

- 2.1. Surfaces must be structurally sound, fully cured, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds, and membrane materials.
- 2.2. Concrete, Stone, and other masonry materials – Clean by grinding, sandblasting, or wire brushing to expose a sound surface free of contamination and laitance.
- 2.3. Wood – New and weathered wood must be clean and sound. Scrape away loose paint to bare wood. Any coating that cannot be removed must be tested to verify adhesion of the **MasterSeal NP 1** or to determine an appropriate primer.

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- 2.4. Metal – Remove scale, rust, and coatings from metal to expose a bright white surface. Remove protective coatings as well as any chemical residue or film. Aluminium window frames are frequently coated with a clear lacquer and must be removed before the application of **MasterSeal NP 1**. Any coating that cannot be removed must be tested to verify the adhesion of the **MasterSeal NP 1** or determine an appropriate primer. Remove any other protective coatings or finishes that could interfere with adhesion.

3. PRIMING:

- 3.1. **MasterSeal NP 1** is generally considered a non-priming sealant, but special circumstances or substrates may require a primer. It is the user's responsibility to check the adhesion of the cured **MasterSeal NP 1** on typical test joints at the project site before application. Consult Technical Services for additional information.

4. APPLICATION:

- 4.1. **MasterSeal NP 1** comes ready to use. Apply by professional caulking gun. Do not open cartridge, or sausage until preparatory work has been completed.
- 4.2. Fill joints from the deepest point to the surface by holding a properly sized nozzle against the back of the joint.
- 4.3. Initial dry tooling is recommended. Use a soapy water solution to wet fingers/spatula when carrying out final tooling after removal of masking tape, etc. – Do not spray soap solution directly onto Joint Sealant surface. Tooling results in the correct bead shape, a neat joint, and maximum adhesion.

5. CLEAN UP:

- 5.1. Immediately after use clean equipment with xylene. Use proper precautions when handling solvents.
- 5.2. Remove cured **MasterSeal NP 1** by cutting with sharp edged tool.
- 5.3. Remove thin films by abrading.

6. CURING:

- 6.1. The cure of **MasterSeal NP 1** varies with temperature and humidity. The following times assumes 24°C, 50% relative humidity, and a joint size 13 mm width by 6 mm depth.
- 6.2. Skins: overnight or within 24 hours.
- 6.3. Functional: within 3 days.
- 6.4. Full Cure: approximately 1 week.

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7. FOR BEST PERFORMANCE:

- 7.1. Do not allow uncured **MasterSeal NP 1** to come into contact with alcohol based materials or solvents
- 7.2. Do not allow **MasterSeal NP 1** polyurethane sealants in the vicinity of uncured silicone sealants
- 7.3. **MasterSeal NP 1** should not come in contact with oil based caulking, uncured silicone sealants, polysulphides, or fillers impregnated with oil, asphalt, or tar.
- 7.4. **MasterSeal NP 1** should not be used for continuous immersion in water.
- 7.5. Do not apply over freshly treated wood, treated wood must have weathered for at least 6 months
- 7.6. Substrates such as copper, stainless steel and galvanised typically require a primer. An adhesion test is recommended for any questionable substrate.
- 7.7. Long term UV exposure may cause **MasterSeal NP 1** to discolour. This does not affect the **MasterSeal NP 1** performance.
- 7.8. **MasterSeal NP 1** can be painted over provided it is fully cured and clean. When painting over any elastomeric sealant, use a paint that is also elastomeric. (If movement occurs, the paint will also move).

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Master Builders Solutions Ltd.,Co.

Level 11, Saigon Trade Center, 37 Ton Duc Thang, Ben Nghe Ward, District 1, Ho Chi Minh City, Vietnam

Tel: +84 329 702 998

Register number: 0316341574

Website: <https://www.master-builders-solutions.com/vi-vn>