

## **PART 1 – GENERAL**

- 1.1**  
**Range of works**
1. The contractor shall provide all materials, accessories, scaffolding, equipment, specialized trucks, tools and labour required to complete all the structures described in the current section, including structures indicated in the drawings and those specified hereafter.
  2. Seal assemblies, systems and perforations;
  3. Seal the various components of the systems during assembly;
  4. Ensure the tightness of anchors and fastening components.
- 1.2**  
**Related sections**
1. Steel doors and frames ..... Section 08 11 14F
  2. Glazing ..... Section 08 80 50E
  3. Paint ..... Section 09 91 26E
- 1.3**  
**Reference standards**
1. CGSB 19-GP-5M, Sealing Compound, One-Component, Acrylic Base, Solvent Curing.
  2. CAN/CGSB-19.6, Caulking Compound, Oil Base.
  3. CAN/CGSB-19.13, Sealing Compound, One-Component, Elastomeric, Chemical Curing (polyurethane).
  4. CGSB 19-GP-17M, Sealing Compound, One-Component, Acrylic Emulsion Base.
  5. CAN/CGSB-19.18, Sealing Compound, One-Component, Silicone Base, Solvent Curing.
  6. CAN/CGSB-19.24-M, Multicomponent, Chemical-Curing Sealing Compound.
- 1.4**  
**Protection**
1. Adjacent surfaces and works in other sections shall be protected from any damages created by the works in this section.
- 1.5**  
**Implementation conditions**
1. The temperature of the sealant and of the support material must be kept above 5°C during application.
  2. If the sealant must be applied at a temperature below 5°C, follow the manufacturer's recommendations.
- 1.6**  
**Scheduling**
1. **Work carried out in two phases, see drawings limits.**
  2. **Scheduling, see section 01 32 18E and directive Ministerial representative.**
  3. The place of work is within an occupied building.
- 1.7**  
**Guarantee**
1. Provide a certificate of guarantee, signed and issued on behalf of the Ministerial representative, stating that all the works in this section are warranted against defects

for a period of five (5) years from the date of signature of the certificate of provisional acceptance work. Comply with section 01 78 00E.

## **PART 2 – PRODUCTS**

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|---|--|
| <b>2.1<br/>Back-up material</b>                 | 1. Round rod made of cellular polyethylene, neoprene or soft butyl, continuous with closed cells, such as SOFTMROD by Tremco or approved equivalent, oversized by 30 to 50%.   |
| <b>2.2<br/>Anti-adherent<br/>(if necessary)</b> | 1. Pressure bonding plastic tape that does not stick to sealants, specified by the manufacturer based on the type of joint applied.  |
| <b>2.3<br/>Primer</b>                           | 1. Before applying the primer and caulking, cover adjacent surfaces as needed to avoid tarnishing them.<br>2. Immediately after applying the caulking, apply the primer to the joint's lateral surfaces, in accordance with the sealant manufacturer's instructions.   |
| <b>2.4<br/>Sealants</b>                         | 1. <b>Sealing between metal and concrete:</b><br>Products complying with CAN/CGSB-19.24-[M90] standard, Type II, Class B. Acceptable product: Dymeric by Tremco. Colour: Ministerial representative's choice.<br>2. <b>Sealing between two concrete or metal pieces:</b><br>Products complying with CAN/CGSB-19.24-[M90] standard, Type II, Class B. Acceptable product: Dymeric by Tremco. Colour: Ministerial representative's choice<br>3. <b>Sealing between metals and adjacent materials, on the inside:</b><br>Products complying with CAN/CGSB-19.13-[M87] standard, Type II, Class B. Acceptable product: Dymonic by Tremco. Colour: Ministerial representative's choice.<br>4. <b>Sealing between non-visible elements and the membrane edge:</b><br>Products in compliance with CAN/CGSB-19.13 standard. Acceptable products: Sopramastic by Soprema. Colour of Ministerial representative's choosing.<br>5. <b>Sealing perforations in the exterior lining:</b><br>Products in compliance with CAN/CGSB 19.13 standard. Acceptable product: Dymonic by Tremco.<br>6. Before applying, have the colour of the sealant approved by the Ministerial representative; the colours must be similar to those of adjacent materials. |
| <b>2.5<br/>Cleaning products</b>                | 1. Xylol, MEK (methyl ethyl ketone), toluene or non-corrosive product recommended by the sealant's manufacturer, compatible with the materials forming the joint.  |

### **PART 3 – WORK**

#### **3.1 Preparation**

1. With a metal brush or grinder, remove rust, scales and other coatings covering the ferrous metal surfaces.
2. With xylol or MEK (methyl ethyl ketone), remove all oil stains, grease and other coatings covering non-ferrous metal surfaces.
3. After injecting the new foam insulation into the cavities between the windows and their frames, remove all excess insulation in order to allow the back-up material to be installed before the new sealants are applied.

#### **3.2 Sealing joint**

1. Apply the sealant as per the manufacturer's instructions.
2. Install appropriate new back-up material to create the prescribed joint depth for the sealants.
3. Prime the inside of the joints with a compatible primer if the width exceeds 9.5mm (3/8"). Cover adjacent surfaces to avoid staining visible surfaces.
4. Apply the product by making a continuous bead of sealant.
5. Apply the sealant using a gun with a nozzle of appropriate dimensions.
6. Use strong enough supply pressure to fill the cavities and perfectly close off the surface of the joints.
7. Build the joints so as to form a continuous bead of sealant, free of ridges, folds, sagging, air pockets and coated dirt.
8. Shape the joint with an appropriate tool or knife, immediately after application, in order to ensure total contact with the interface of the joint, according to the manufacturer. It is preferable to shape the joint dry. Shaping agents may also be used. Take care not to contaminate the underlying open joints. Shape the visible surfaces in order give them a slightly convex profile.
9. Remove excess sealant as work progresses and when work is over.

#### **3.3 Drying**

1. Allow sealants to dry in accordance with the manufacturer's instructions.
2. Do not cover sealants before they are fully dry.

#### **3.4 Cleaning**

1. Immediately clean adjacent surfaces and leave the structure clean and in perfect condition.
2. As work progresses, remove excess, dripping sealant with recommended cleaning products.
3. Remove masking tape at the end of the initial joint-setting period.

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