PART 1. GENERAL

1.01 SUMMARY

A. Comply with Division 1, General Requirements.

1.02 REFERENCES

A. Comply with the latest edition of the following statutes codes and standards and all amendments thereto.

1. CAN/CGSB-19.13Sealing Compound, One Component, Elastomeric, Chemical Curing.
2. CAN/CGSB-19.24Multicomponent, Chemical Curing Sealing Compound.
3. CAN/ULC S115 Standard Method of Fire Tests of Firestop Systems.

1.03 QUALITY ASSURANCE

A. Pre-Installation Meeting

1. Arrange for sealant manufacturer's technical representative to visit Site prior to commencement of sealing, to review with Contractor, installer and Contract Administrator, installation procedures to be adopted, conditions under which Work will be carried out, and inspect surfaces and joints to be sealed.
2. Review weather conditions under which Work will be done, anticipated frequency of joint movement, shape factor of the joint, durometer hardness, slump, and curing characteristics of materials specified, joint characteristics as built, sample of sealed joint to determine acceptable workmanship.
3. Submit review comments in writing to Contract Administrator.

1.04 SEQUENCING

A. Install sealant and backing material after applied finishes are completed.

1.05 WARRANTY

A. Submit a two-year warranty for the Work of this Section against defects in materials and workmanship.

B. Warranty period: Commencing with date of Substantial Performance.

PART 2. PRODUCTS

2.01 MATERIALS

A. Sealant Type A: CAN/CGSB 19.24 Type II, Class B, Dymeric 240/240FC, by Tremco (Canada) Ltd., multi-component polyurethane.

B. Sealant Type D: Duoflex-SL, by Sika Canada Inc., two component polysulphide sealant for interior and exterior locations.

C. Sealant Type G: CAN/CGSB-19.13, DC 795 by Dow Corning Inc., one component silicone sealant.

D. Colour of sealant: From manufacturer's standard colour range matching predominant material to which sealant is applied and to review by the Contract Administrator.

E. Primer: Where required and of type recommended by manufacturer of sealant and compatible with material used in the same joint as joint filler.

F. Joint backing: Closed-cell, plastic foam filler as recommended by manufacturer of sealant. Minimum 25 percent oversized. Bond breaker strip as recommended by manufacturer.

G. Cleaning material: As recommended by manufacturer of sealant.

PART 3. EXECUTION

3.01 PREPARATION

A. Clean surfaces of joints and spaces to be sealed with solvent or cleaner. Ensure that surfaces are structurally sound, free from dust, grease, other contaminants, or laitance which may adversely affect adhesion of sealing materials. Use dry clean compressed air stream if necessary to clean out the joint.

B. Test materials for indications of staining or poor adhesion.

C. Prime joints to prevent staining, to assist bond, and to stabilize porous surfaces. Apply two coats of primer at base of aluminum handrail posts and other porous surfaces.

D. Conform to manufacturer's printed instructions for mixing, work life, and other characteristics of sealant to be used.

E. Where necessary to prevent contamination or marring surface of adjacent materials,

mask area adjacent to joints with masking tape. Remove tape immediately after joint has been completed and initial set achieved.

3.02 INSTALLATION

A. Install sealant with equipment recommended by manufacturer. Install sealant and primer when surfaces are prepared, and when ambient temperature and weather conditions are consistent with manufacturer's recommendations.

B. Install joint backing material, and bond breaker type material.

C. Ensure that correct sealant depth is maintained or provide width-to-depth ratios for specified sealant:

JOINT WIDTH	JOINT DEPTH	
	Minimum	Maximum
6 mm	3 mm	
6 mm - 25 mm	One half width	Equal to width
Over 25 mm	As accepted in writing	

D. Tool joint sealant to produce smooth full bead, free from ridges, wrinkles, sags, air pockets and embedded impurities.

E. Remove droppings and excess sealant as Work progresses, before material achieves initial set.

F. Install closure strips where indicated and as required under metal deck to provide continuous closure along perimeter of rooms.

3.03 SCHEDULE

A. Where mechanical compression type seals are provided under the Work of other Sections (at pipe penetrations), sealant is not required.

B. Sealant Type A:

1. Seal vertical, construction and expansion joints in concrete. Do not seal joints which will be immersed.
2. Seal both sides around frames of exterior doors and entrances.
3. Except where indicated otherwise, seal around pipes, ducts, cables, conduits and other penetrations through walls, floor slabs, which are not designated fire separations.

C. Sealant Type D:

1. Seal control joints in saw cut concrete slab.

D. Sealant Type G:

1. Seal metal flashings.

END OF SECTION