

**Project No.** 150457

**Client:** Council of the Isles of Scilly

**Tender Issue** 10/11/2017

**STRIDE TREGLOWN**  
ARCHITECTURE

## **Carn Gwavel School**

**10 November 2017**

**This document includes:**

Code	Section	Revision	Dated
Z22	Sealants		

## Z22 Sealants

To be read with Preliminaries/General conditions.

### PRODUCTS

- 310 JOINTS Classification: Refer to schedule of sealants below for type. The type shall mean
- Silicone ex (external)
  - Dow – C60 low modulus sealant
  - Silicone
  - Adshead Ratcliffe - Arbosil 1081 high modulus neutral cure sealant with fungicide
  - Caulk
  - Adshead Ratcliffe Arbo Caulk
  - Intumescent / acoustic
  - Adshead Ratcliffe 1075 Intumescent acoustic sealant

### SCHEDULE OF SEALANTS

1. EXTERNAL
    - Movement joints in block and brick work Silicone ex
    - Perimeter of curtain walling Silicone ex
    - Perimeter of doors and windows Silicone ex
  2. PLANTROOMS
    - Perimeter of doors and louvres Silicone ex
    - Penetrations of services through cladding Silicone ex
  3. INTERNAL PERIMETER WALLS
    - Perimeter of all windows and doors Silicone ex
    - Block work / pc plank junction ground floor Intumescent / air seal
    - Dry lining slab and roof decking junction Intumescent / air seal
    - Movement joints in block wall Silicone ex
    - Dry lining around steel beams Intumescent / air seal
    - Junction between cill board and dry lining Caulk
  4. INTERNAL
    - Sole and head track stud partitions both sides Intumescent / acoustic seal
    - Back of all door frame architraves Caulk
    - Vinyl floor to door linings Silicone
    - Movement joints in block walls Silicone
  5. FIXTURES / FITTINGS
    - Base of all wc pans to floors Silicone
    - Perimeter of ceiling mounted light fittings Silicone
    - Perimeter of disabled wc back box to IPS Silicone
  6. MECHANICAL AND ELECTRICAL / BUILDERS WORK
    - Perimeter of surface fixed trunking Silicone
    - Perimeter of wall mounted panels / vents Silicone
  7. BUILDERS WORK
    - Drainage pipes passing through walls and floors Acoustic / intumescent
    - Ducts / pipes passing through walls and floors Acoustic / intumescent
- Primer, backing strip, bond breaker: Types recommended by sealant manufacturer.

## **EXECUTION**

### **610 SUITABILITY OF JOINTS**

- Presealing checks:
  - Joint dimensions: Within limits specified for the sealant.
  - Substrate quality: Surfaces regular, undamaged and stable.
- Joints not fit to receive sealant: Submit proposals for rectification.

### **620 PREPARING JOINTS**

- Surfaces to which sealant must adhere:
  - Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
  - Clean using materials and methods recommended by sealant manufacturer.
- Vulnerable surfaces adjacent to joints: Mask to prevent staining or smearing with primer or sealant.
- Backing strip and/ or bond breaker installation: Insert into joint to correct depth, without stretching or twisting, leaving no gaps.
- Protection: Keep joints clean and protect from damage until sealant is applied.

### **630 APPLYING SEALANTS**

- Substrate: Dry (unless recommended otherwise) and unaffected by frost, ice or snow.
- Environmental conditions: Do not dry or raise temperature of joints by heating.
- Sealant application: Fill joints completely and neatly, ensuring firm adhesion to substrates.
- Sealant profiles:
  - Butt and lap joints: Slightly concave.
  - Fillet joints: Flat or slightly convex.
- Protection: Protect finished joints from contamination or damage until sealant has cured.