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# ARDEX TANKING MEMBRANES

## CPD SUMMARY INFORMATION

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### **Various tanking membrane systems are available they include:**

- Positive side: Installed to the wall post wall construction on the external of the building
- Negative side: Installed on the inside face of the wall - typically as a solution to a wall that is leaking
- Blind side/Pre-Applied: Installed onto shotcrete/sacrificial form work before the wall is constructed

### **Four membrane categories and considerations:**

#### **Liquid applied - Urethanes, rubbers, plastics and modified bitumen emulsions**

- Is it the right product for the right situation and does it have the required testing?
- What is the expected life span?
- Will it withstand hydrostatic pressure?
- How to ensure the installer applies the right film build?
- Does it meet B2- 50 years?
- Concrete block walls should be rendered first to minimise risk of cracking along mortar joints
- Detailing changes in direction and expansion joints is critical

#### **Sheet applied - Thermoplastics, vulcanised rubbers, rubberised bituminous membranes**

- Is it the right product for the right situation?
- Has required testing i.e., geothermal, methane, radon
- Installed by an approved installer?
- Does it meet B2- 50 years?
- Fully adhered with seams fully bonded - reduces the risk for lateral migration should a leak ever occur
- Detailing of changes in direction and expansion joints is critical

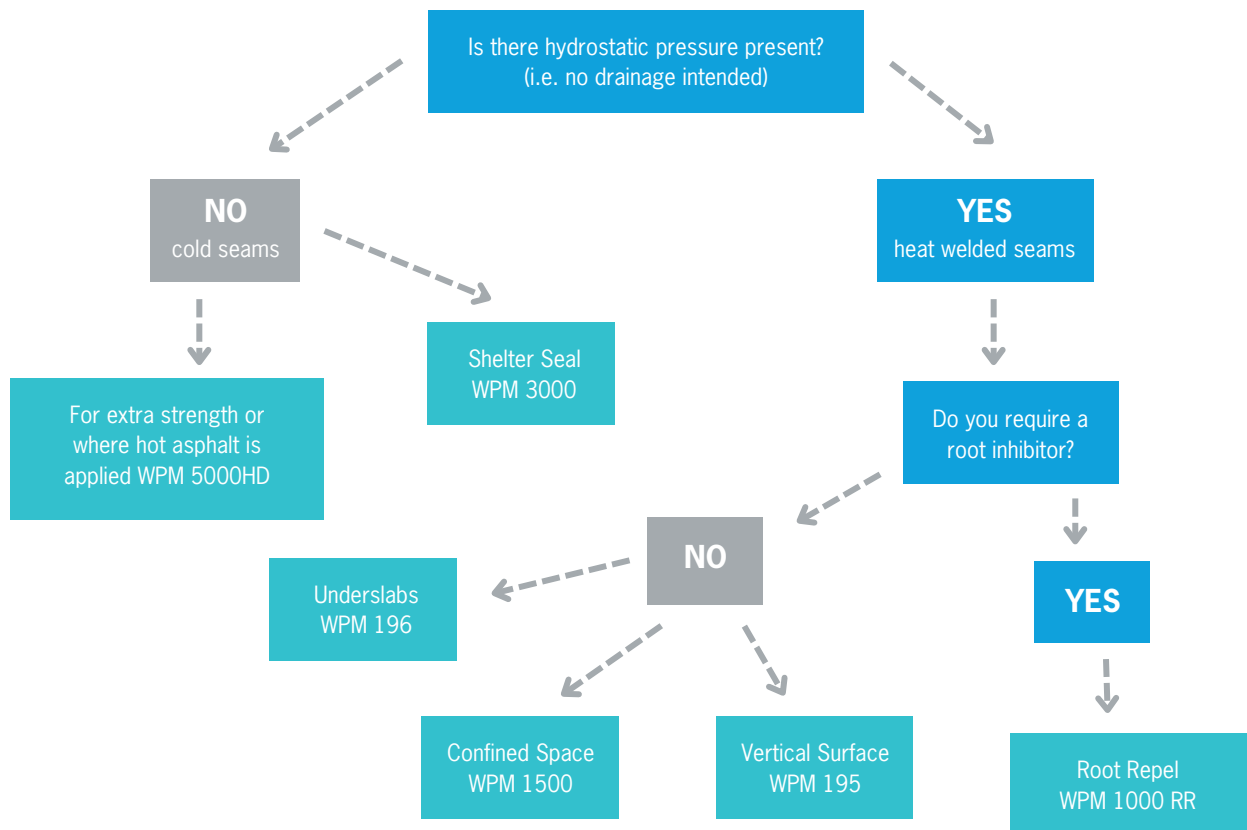
#### **Bentonite clay - sodium bentonite and applied onto a carrier fabric**

- Is it the right product for the right situation and does it have the required testing?
- Must be installed by an approved installer
- Sheets correctly overlapped and pinned?
- If not confined, it may shrink upon drying creating gaps causing the waterproofing to fail
- Waterstop bars are critical

#### **Cementitious systems - cement combined with an active waterproofing agent**

- Is it the right product for the right situation?
- Must be installed by an approved installer
- If the structure moves and cracks this generally renders the waterproofing null and void
- Detailing

# ARDEX TANKING SELECTION



## General considerations across all solutions:

### Weather

- Weather is an important part of any installation
- Also, location of the site and if dewatering is required

### Preparation

- All edges should be radiused
- Fillet installed at changes in direction
- Secondary detailing at critical points

### Finishing Details

- Most bituminous membranes are not UV stable. Finishing details must be thought of in advance
- Protection boards used prior to backfilling
- Products used in conjunction with must meet B2

### Sub trades

- It is important they report any damage
- If services are run through the membrane, these need to be correctly sealed and made watertight by the membrane installer

### Waterstops

- Needed in all construction joints in below grade applications
- PVC waterstops must be welded correctly
- Don't use standard waterstops in a marine environment

## ARDEX Contacts

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## ARDEX TANKING MEMBRANE SPECIFICATIONS

[https://masterspec.co.nz/popups/NextGen2/app\\_html\\_ws.aspx?id=b87e4304-72f9-4549-9db1-398be6030f55&isShowGuidanceNotesToggle=0&isShowEditorNotesToggle=0&isGuidanceNotesShowOnLoad=0&isEditorNotesShowOnLoad=0](https://masterspec.co.nz/popups/NextGen2/app_html_ws.aspx?id=b87e4304-72f9-4549-9db1-398be6030f55&isShowGuidanceNotesToggle=0&isShowEditorNotesToggle=0&isGuidanceNotesShowOnLoad=0&isEditorNotesShowOnLoad=0)