

# HYER STANDARDS

## Waterproofing

The Hansen Yuncken HYer Standards provide guidance on the minimum level of compliance expected for high risk activities on all projects.

### Substrate Preparation



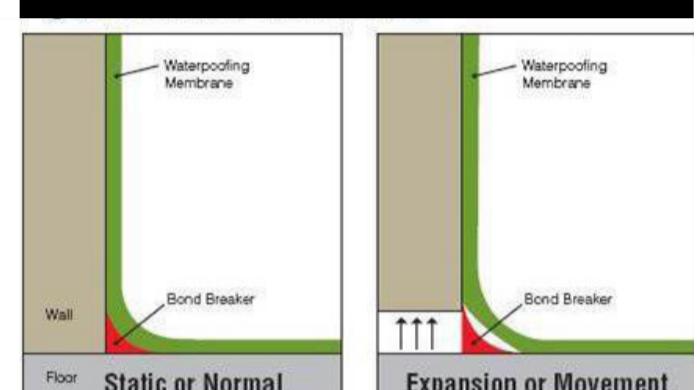
- The concrete curing compound must be removed, and the slab made ready to receive the membrane system.
- Substrate falls are to be as specified.
- Moisture content of the substrate is to be checked prior to installation of the waterproofing system and within specified levels.
- The substrate must be accepted by the waterproofing subcontractor.

### Pre-Application



- Penetrations, pipework, upstands, downturns, floor wastes have to be waterproofed per specified details.
- Membrane details at expansion/construction joints must be per specified requirements.
- Primer is to be fully applied to all areas as detailed prior to the application of the waterproofing membrane.

### Application



- Bond breakers must be installed before the membrane is applied.
- The waterproofing is to be laid with minimum joins/laps.
- Lap distance must comply with the manufacturer's specifications.
- The upstand/perimeter detail is to be as specified.
- Membrane film thickness (wet/dry) must be checked for each coat.

### Application (cont.)



- The waterproofing membrane is to be applied to all areas required by the specification and approved plans.
- Access controls/barriers are to be in place, and warning signage displayed to protect the waterproofed area(s) during the curing period.

### Curing/Testing

Mapegum WPS on a wall with a collar		Waiting time before laying coating material: 12-24 hours	
FINAL PERFORMANCES			
Resistance to temperature variations:	excellent		
Resistance to ageing:	excellent		
Resistance to solvents and oil:	good		
Resistance to acids and alkalis:	good		
Elongation at breakage (DIN 53504) (%):	180		
In service temperature range:	from -30°C to +100°C		
Water absorption (% by weight) 7 days at +23°C + 21 days immersed in water:	10 (Standard UNI 8202/22a)		
Vapour permeability ( $\mu$ ):	650 (Standard UNI 8202/23a)		
Acceptable limits according to EN 14891		Performance figures for Mapegum WPS	
Impermeability to water under pressure: according to EN 14891-A.7 (1.5 bar of positive lift for 7 days):	no penetration	no penetration	
Crack bridging ability at +20°C according to EN 14891-A.8.2 (mm):	> 0.75	4.5	
Initial bond strength according to EN 14891-A.6.2 (N/mm <sup>2</sup> ):	> 0.5	1.6	
Bond strength after immersion in water according to EN 14891-A.6.3 (N/mm <sup>2</sup> ):	> 0.5	1.2	
Bond strength after application of heat source according to EN 14891-A.6.5 (N/mm <sup>2</sup> ):	> 0.5	1.6	
Bond strength after freeze-thaw cycles according to EN 14891-A.6.6 (N/mm <sup>2</sup> ):	> 0.5	1.6	

- Waterproofing membrane curing must be per the technical specification.
- A visual check is to be conducted to ensure the membrane is free of air pockets, wrinkles, holes, tears, and damage.
- All applicable tests are to be carried out per the project specifications.

### Compliance

#### Hold / Witness Points

- Substrate approved for waterproofing application.
- Primer inspected by HY prior to Waterproofing Membrane installation.
- Waterproofing Membrane inspected by HY prior to any testing.
- Testing of Waterproofed areas completed with no evident failures.

#### Supporting Documentation

- Product certificates of compliance, technical data sheets, and warranties
- Slip Resistance Test Certificate.
- Manufacturer's Warranty Certificates



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**WATERPROOFING  
PROCEDURE**