

Servigard® DW

Cementitious, flexible, moisture tolerant sealant for construction joints in reinforced and precast concrete.

Advantages

- UK WBS Listed - Approved for contact in potable water.
- **Biologically resistant** - withstands microbiological degradation in aerobic and anaerobic conditions in sewerage installations.
- **Damp surface tolerant** - uniquely bonds to damp concrete.
- **Chemically resistant** - unaffected by aggressive ground water conditions, oil, fuel and dilute acids.
- **Resistant to damage** - provides tough impact resistant sealant to protect joint arisses in factory floors or slabs subject to wear.
- **Chemically curing** - cold applied, easily mixed, can be gun applied or trowelled.

Description

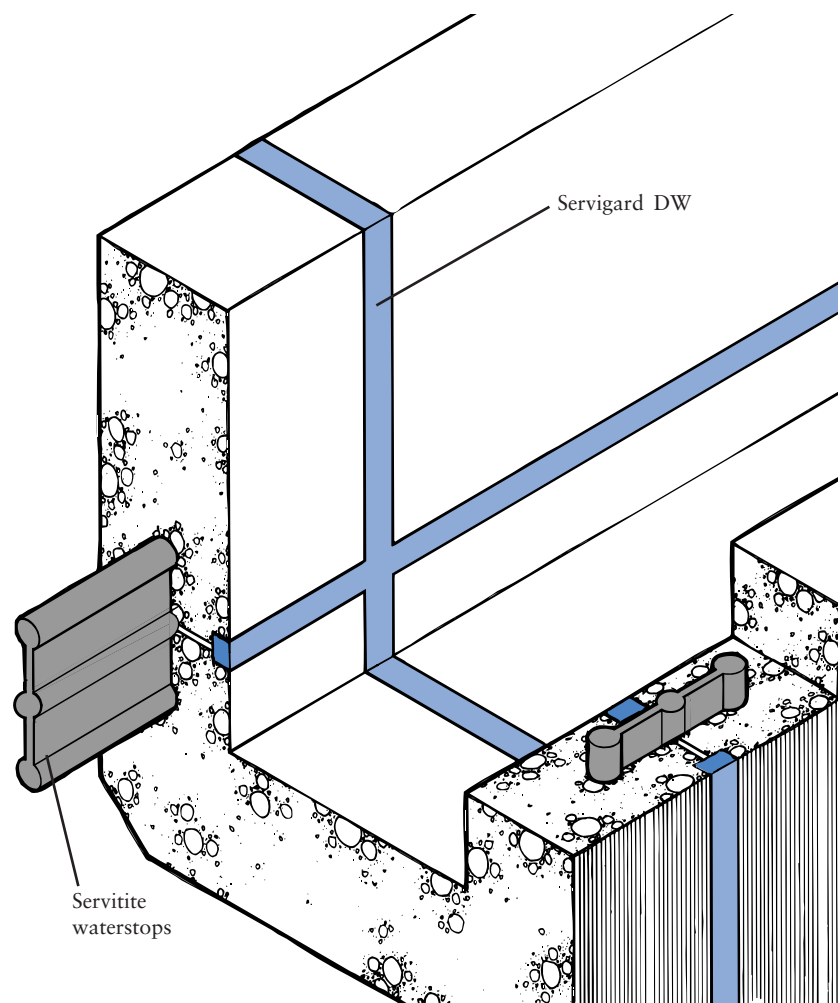
Servigard® DW is a tough, cold applied, two part chemically curing polymer compound to which cement is added for sealing construction joints in concrete slabs and walls subject to damp or full immersion in potable water, sea water, sewage treatment works, internal/external slabs, hardstandings and shuttering bolt holes.

It is supplied in a plastic bucket containing Parts A and B which are blended together with fresh, ordinary portland cement (OPC) to form a trowelling or gun grade sealant. This cures to a tough, resilient sealant capable of accepting small structural movements and impact within a large operating temperature range.

A hot climate grade (HC) is available to suit higher ambient temperatures.

Applications

- Low movement and construction joints.
- Construction joints between precast elements.
- Construction joints in water retaining structures.
- Reinforced concrete wall and floor joints.



Supply

Servigard® DW STD 5.5 kg pack
 Servigard® DW HC 5.5 kg pack
 Provides 5.2 litre mixed volume with 3.84kg of cement
 Pack consists of 15 litre plastic bucket containing:
 Part A and Part B in 3 litre lidded tubs.

Storage

Store in original containers in dry conditions above +5°C and below +30°C.
 Shelf life 6 months for Servigard® DW STD and 12 months for Servigard® DW HC.

Coverage (for estimating purposes only. No allowance for wastage, etc.)

Dimension of joint

mm	6	10	12	16	20	25	30	35	40
6	144.4								
10	86.6	52.0							
12	72.2	43.3	36.1						
16	54.1	32.5	27.0	20.3					
20	43.3	26.0	21.6	16.2	13.0				
25	34.6	20.8	17.3	13.0	10.4	8.3			
30	28.8	17.3	14.4	10.8	8.6	6.9	5.7		
35	24.7	14.8	12.3	9.8	7.4	5.9	4.9	4.2	
40	21.6	13.0	10.8	8.1	6.5	5.2	4.3	3.7	3.2

Equipment by Grace Serviced®

Vortex Paddle Unit
 Solid Barrel Gun Unit
 Plastic Nozzle Unit, cut to size

Equipment and Materials by Others

Wire brush, heavy duty 500 rpm electric drill, trowel, palette knife, masking tape, tool cleaner brush or spray for wetting joints.

Materials by Others

Fresh ordinary portland or sulphate resisting cement.

Performance

Colour	Dark Grey
Operating Temperatures	-30°C to +70°C
Installation Temperatures	
Servigard® DW STD	+5°C to +30°C
Servigard® DW HC	+5°C to +40°C
Shore A hardness	30 - 50
Recommended Movement	Transverse ± 2.5% (Based on a joint width to depth ratio of 1.5:1)
Movement Accomodation factor	5%
Specification Compliance	UK WBS Listed. Conforms to DWI Water Quality Regulation 25.1 (c) 1989

Limitations

Use only ordinary portland cement (OPC) taken from a fresh, unopened bag. Do not use cement contain plasticisers or other additives. Do not use rapid hardening or sulphate reducing cement.

Installation

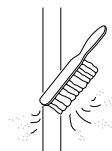
Do not use below +5°C. Apply by trowel to dampened surfaces. Alternatively mixed sealant may be drawn into a Solid Barrel Gun and gunned into the joint using the Plastic Nozzle cut to the appropriate size. Servigard DW should only be placed in 25mm

maximum depths at one time to prevent exotherming resulting in a slight bulge out of sealant chase. Deeper joints can be filled in two passes; the second application being applied 24 hours after the first.

Joint Preparation

Note: Servigard DW is not suitable for application against flowing water and leaks must be plugged before commencing installation.

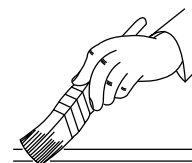
Ensure that all surfaces are free of slot formers, loose material or mould release



agents. Wire brush thoroughly and remove dust and contaminants.

Priming with water

Do not prime surfaces when temperature is below +5°C. Use clean fresh water for priming and apply by brush or



spray. Allow excess water to drain or soak away leaving a damp surface.

Pot Life

Dependent on storage and application temperature but typically.

Standard grade • 20-30 mins @ 20°C
 HC grade • 20-30 mins @ 35°C

Mixing

Pre-stir Part B ensuring any sediment is completely dispersed. Transfer all of the contents of Part A and Part B into the larger outer plastic bucket.



Mix with a Grace Vortex Paddle at 500 rpm until a consistent colour is obtained.

Immediately add fresh ordinary portland cement (OPC) (gauged to 40mm below rim of the empty Part B tub) by pouring steadily into the vortex created by the paddle. Stop mixing as soon as the mix appears to be uniformly blended. On vertical applications it may be desirable to allow the mixed unit to thicken for a few minutes before use. Apply using trowel or solid barrel gun.

CAUTION:

Do not leave mixed material in the bucket. Mixed Servigard DW left in the bucket will reach temperatures above 100°C and could cause burns.

Allow 7 days curing at +7°C before immersion in any liquid. It may be necessary to provide drainage in storage tanks during this time to prevent immersion.

Health And Safety

For Servigard DW read the product label and Material Safety Data Sheet (MSDS) before use. Users must comply with all risk and safety phrases. MSDS's can be obtained from Grace Construction Products or from our web site at www.graceconstruction.com.

There is no legal requirement for a Material Safety Data Sheet for Servitite. For health and safety questions on this products please contact Grace Construction Products Limited.

NBS Specification Clause

Refer to Clause E40 530.

Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact Grace Technical Services

web Visit our web site at www.graceconstruction.com

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