

DESCRIPTION

BELLE WP SLURRY is a proprietary, cement-based, two component, latex fortified, waterproofing system; comprising of Part A which is a cementitious powder & Part B which is a water-based polymer (liquid). Manufactured to stringent Internal Quality Assurance System, conforming to BS 5750 : Part 2 : 1987. Conform to ASTM E96 Water Vapour Transmission of Material.

GENERAL PERFORMANCE

BELLE WP SLURRY sets to provide a durable, flexible, seamless waterproofing system. It is resistance to frost & salt and is able to bridge minor cracks in the substrate. Once fully cured it offers outstanding water, carbonated & chlorinated tight properties.

Suitable for use at internal & external areas, for light to heavy service wet duty areas or water sensitive backgrounds. It prevents water penetration beneath suspended floors or water infiltration. BELLE WP SLURRY is used as a sandwich water or vapour proof membrane for above ground & basement application.

Good adhesion to most dry, sound & clean substrate. Suitable for application onto concrete, cementitious mortar substrates (eg. cement-sand renders, screeds etc.) and masonry.

Provides a waterproofing system where Ceramic Tiles etc., can be fixed directly, using the appropriate BELLE Adhesives. An user-friendly system which offers ease of application (using brush, roller, broom or trowel), compared to traditional waterproofing products. Its pre-packed components allows for better mixing consistency and avoids mixing errors. It is mixable to either a slurry or paste consistency (see Mixing). Being water-based it is environmentally friendly.

Note: Belle WP Slurry may be applied to structures which are and will remain free of cracks. Joints may be necessary to accommodate tensile & shear stress due to settlement. Plumbing pipes passing through waterproofing must not be treated with Belle WP Slurry; but jointed with an approved elastic polyurethane sealant.

TYPICAL APPLICATION

BELLE WP SLURRY can be used as a waterproof coating at :

- Internal Wet Duty Areas eg. Showers / Toilets / Ablution / Kitchen / Laundry Areas etc.
- Basement & Underground Garages
- Water Tanks
- Terraces & Balconies
- Retaining Walls
- Flat Roofs
- Swimming Pools & Pool Decks

APPLICATION INSTRUCTION

Surface Preparation :

- Concrete, Cement-Sand Render / Screed & Masonry surface must be well age, dry, sound, flat or true & free of contaminants eg. grease, oil, dust, loose particles, laitance etc.
- Steel / Metal surface must be free of scales, rust, grease, oil etc.

Mixing :

- The consistency of the mix can be adjusted by reducing or increasing the amount of Part B (Liquid) added.
- For a Slurry Consistency – Mix the full dosage of Part A (Powder) to Part B (Liquid).
- For a Paste Consistency – Mix the full dosage of Part A (Powder) to approx. 90% of Part B (Liquid).
- When mixing always add Powder gradually into Liquid. Use a clean container. Stir using a slow speed mixer until a consistent Slurry or Paste mortar is obtained.

TECHNICAL DATA

Colour	- Powder : Grey
	- Liquid : Milky White
Specific Gravity	- Powder : 1.60 g/cm ³ (dry)
	- Liquid : 1.02 g/cm ³
pH of mix	: Approx. 10
Shelf Life	: 12 months
Inflammability	: No
Toxicity Hazard	: No
Dry Film Thickness	: 1 - 2 mm
Mix Proportion	- Slurry : Part A (Powder) to Part B (Liquid) = 2.5 : 1 part by weight (pbw).
	- Paste : Part A (Powder) to Part B (Liquid) = 4 : 1 pbw.
Spreading Rate	- Slurry : 2.8 - 3.4 kg / m ² (2 coats)
	- Paste : 3.3 - 4.0 kg / m ² (2 coats)
Pot Life (Working Time)	: 3 hours
Touch Dry Time	: 3 - 6 hours
Setting Time	: 24 - 48 hours
Application Temperature	: Above 5°C and at normal ambient temperature
Temperature Resistance	: 100°C
Frost Resistance	: Good
Water Resistance	: Good
UV Resistance	: Good
Resistance to acids	: Fair
Resistance to alkalis	: Fair
Resistance to oil & solvents	: Fair
Damp Resistance	: Good
Flexibility	: Good
Water Uptake (48 hrs)	: Approx 7% at 23°C
Co2 Diffusion in Resistance RB	: 480 meter
Water Vapour Diffusion Resistance SD	: 3.0 meter
Water Vapour Permeability (1.0 mm film conditioned at room temperature for 7 days)	: 35 g/m ² at 100 g/m ² (at 25°C & 75% R.H.)
Tensile Adhesion Strength :	
28 Days Air Dry at 23°C - Slurry	: 1.7 N/mm ²
- Paste	: 1.5 N/mm ²
Compressive Strength :	
28 Days Air Dry at 23°C - Slurry	: 25 N/mm ²
- Paste	: 35 N/mm ²
Flexural Strength :	
28 Days Air Dry at 23°C - Slurry	: 11 N/mm ²
- Paste	: 10 N/mm ²
Elongation :	
28 Days Air Dry at 23°C - Slurry	: 195%
- Paste	: 160%
Waterproofing :	
28 Days Air Dry at 23°C	- No water penetration allowed at 0.2 kgf/cm ² for 6 hours.
Crack Bridging :	
28 Days Air Dry at 23°C - Slurry	: 0.80 mm wide
- Paste	: 1.00 mm wide



Application :

- It is advisable to dampen substrate with water; prior to application of waterproofing mortar. This is particularly important if substrate exhibits a high degree of water suction. Rapid loss of moisture from the waterproof coating may result in pinholes, poor adhesion and overall weakened properties.
- Slurry consistency waterproofing mortar can be applied using stiff bristle brush / broom & roller. Paste consistency waterproofing mortar can be trowel / spread using a steel trowel / float.
- The waterproofing "slurry or paste" mortar must be applied in two (2) coats, for optimum waterproofing results.
- Apply First Coat throughout the selected section and allow to Touch Dry (approx. 3 - 6 hours); before the Second Coat is applied. The Second Coat must be applied over the First Coat from a right angle. The Second Coat must be applied while the First Coat had not cure (or not later than on the following day).
- The Second Coat applied must be sufficiently thick, to withstand anticipated water pressure. After application of Second Coat, finish surface by rubbing down with soft dry sponge.
- The ideal finish thickness (2 coats) of Belle WP Slurry is between 1 - 2 mm.
- Ensure that the waterproofing mortar is consistently applied, filling all pores, pinholes or voids. Ensure that waterproofing applied is seamless. Extra care must be taken when applying to joints, cracks, junctions or corners (See Note).
- To obtain an effective waterproof tanking system, Belle WP Slurry must be employed throughout the floor areas, with a wall upturn of between 300 - 600 mm.
- Allow the waterproofing to cure for at least 24 - 48 hours.

Protection :

- The waterproofing must not be wetted while it is still curing. It should be protected from direct sunlight, rain or pedestrian traffic for at least 24 hours.

Note: Cement-Sand or Polyurethane Sealant "Angle Fillet" can be incorporated at internal corners between wall & wall or wall & floor to relieve waterproof coating of stresses in the event of movement. Waterproof coating applied over cracks, joints & junctions can be reinforced by incorporating fiberglass net in between coats.

: Concrete substrate must be aged at least 6 weeks, while cement-sand render & screed substrate must be aged 2 & 3 weeks respectively; before application of waterproofing.

: It is the responsibility of users / applicators to determine condition & suitability of all surfaces; prior to actual application.

COVERAGE

Slurry - Approx. 6 - 7 m² (at 2 mm thickness) for 15 kg Part A Powder to 6 litres Part B liquid.

Paste - Approx. 5 - 6 m² (at 2 mm thickness) for 15 kg Part A Powder to 6 litres Part B liquid.

SHELF LIFE / STORAGE

At least 6 months; when stored in dry conditions of normal ambient temperature. Store out of direct sunlight.

PACKING

Part A (Powder) : 15 kg bag & Part B (Liquid) : 6 ltrs drum.

TECHNICAL SERVICES

For further details or recommendation please contact our Technical Advisory / Specification Center at 603-6275 9498 (KL), 604-657 2830 (Penang)

PRECAUTION

- Non-Toxic. However avoid inhaling dust.
- If enter eyes wash out with water and seek medical attention.
- Keep away from children reach.
- May cause minor irritation to those with sensitive skin. Wear suitable gloves.
- Clean all tools and equipment promptly before material hardens. Hardened materials can only be removed mechanically.

Conditions Of Sales :

Sold subject to Company's Condition of Sale, which is available upon request.

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The manufacturer reserves the R&D rights to continually improve its product technology. Information provided in this brochure may be superseded with improvement in product technology. This improvement should they take place, shall not affect the products actual functional purposes.

MARKETING OFFICES :

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Conform To :

BS 5385 : Part 1 - 5

CP 102 : 1973

ASTM E96

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Member Of :

- FMM, Malaysia
- MCIG, Malaysia
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- SIRIM Working Group - MS1294 & MS1295