

GENERAL DESCRIPTION

AXEL AQUASHIELD 100 is a double component modified cementitious waterproofing slurry putty system formulated as a semi rigid coating to seal micro porous holes in the concrete capillaries. It has good capability with other cement-topping screed and is scratch resistant.

RECOMMENDED USES

Waterproofing coating to:

- * Basement
- * Wall renderings
- * Reservoirs
- * Swimming pools
- * Foundation wall pre-cast panels
- * Tunnels
- * Concrete tanks
- * Floor slabs
- * Toilets

CHARACTERISTICS & ADVANTAGES

- * Protects concrete from deteriorating, oxidation, efflorescence, corrosion and spalling
- * Economical
- * Easy handling
- * Inorganic
- * Non-tainting
- * Non-toxic
- * Unaffected by U.V.
- * Hardwearing
- * Environmental friendly

COVERAGE

- * Waterproofing bathroom floor and walls is 1 kg/m² per coat
- * Waterproofing coating up to 1 meter water head is 1.5 kg/m² per coat
- * Waterproofing coating more than 1 meter water head is 2 kg/m² per coat
- * As a protective coating is 2 kg/m² per coat

Notes:

- * **AXEL AQUASHIELD 100** must be applied in minimum of 2 coats
- * 3 coats may be required in areas of extremely high infiltration

COLOURS

Part A: Grey powder Part B: White liquid
Part A + Part B (mixed mortar): Grey slurry

PACKING

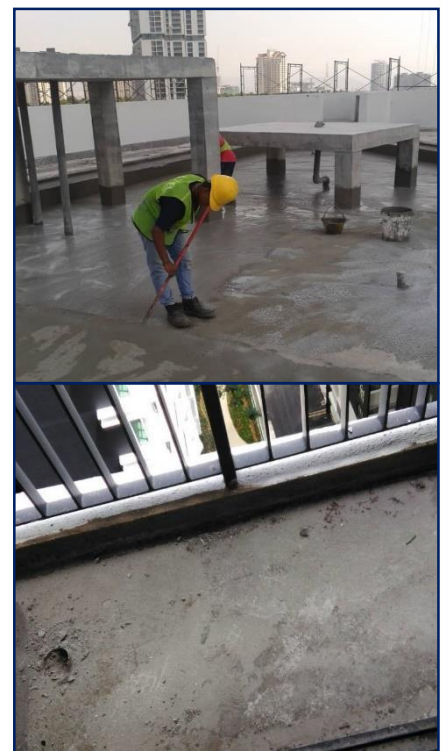
25 kg per set
Part A: 20 kg per bag Part B: 5 kg per bottle

STORAGE

Store in a dry, cool and shaded place



SIRIM
ECO-LABEL
'Low VOC'



SURFACE PREPARATIONS

All surface laitance and unsound concrete must be chipped away so that a reasonably rough but strong sound surface is provided. All surfaces must be clean, free from oil, grease and dust. The applied waterproofing should be kept damp with a mist spray if weather is exceptionally hot and dry, or covered by a shed to avoid accelerated drying.

METHOD OF APPLICATION

- * Mix **AXEL AQUASHIELD 100** part A & B in a clean container with a power stirrer until a homogeneous blend is achieved.
 - * Pre-soak surface with water and allow no ponding while applying.
 - * Apply **AXEL AQUASHIELD 100** Part B which can be diluted with 20 - 30% water as a primer by brush.
 - * Before it fully dries, apply 1kg/m² of **AXEL AQUASHIELD 100** per coat at a minimum of 2 coats (3 coats for reservoirs and water tanks) with a bristle brush or broom. The application shall be done in a criss-cross pattern between coats.
 - * Over coating is performed after each coat is dried for approximately 24 hours.
 - * The finished coating must be thick enough to withstand the expected water pressure. The waterproofed area must be allowed to cure for 36 hours before backfilling or applying any foreign coatings.
- Note: Application is not possible below temperatures of 5°C and on frozen surface.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

TECHNICAL SPECIFICATIONS

No. of components	Two
Mixing ratio	Part A : Part B = 4 : 1 (parts by weight)
Specific gravity	Part A: ~1.60 kg/litre Part B: ~ 1 kg/litre Part A + Part B (mixed mortar): 1.97 kg/litre
Pot life (28 C)	~ 30 minutes Time may vary depending on temperature and humidity
Layer thickness per application	Maximum 2mm
Bonding strength to concrete	> 0.5 Mpa
Water absorption (BS1881-122: 1983)	0.6% (average corrected adsorption)
Toxicity	Non toxic Complied standard: -Singapore SEC Green Label under category 22 -Registered under SPAN Malaysia

Drinking Water Exposure

* MS 1583 Part1:2003 Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water, SIRIM QAS International Sdn Bhd, Malaysia. **AXEL AQUASHIELD 100** exhibited no cytotoxicity response under the conditions of test.

* Registered under Suruhanjaya Perkhidmatan Air Negara (SPAN), Malaysia.

AXEL AQUASHIELD 100 was certified by SPAN to be used in the water services industry in Peninsular Malaysia and Federal Territory of Putrajaya and Labuan.

AQUASHIELD 100

Waterproofing Slurry Putty System

*** Sirim Eco label Certification**

AXEL AQUASHIELD 100 was certified by Sirim as Low VOC Eco-friendly Building Material.

SHELF LIFE

12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.

The above data is provided in good faith and to the best of our knowledge. However, since application and services conditions are beyond our control, we do not accept liability relating to coverage, performance and injury arising from the use of our products based on the data. Further with the constant advancement of technology we reserve the right to modify data without prior notice and we advise that you check with our Axelchem Technical Department at Tel: 603-6276 2118 the validity of these data especially if more than six months have lapsed since issue.