

BERRYSEAL



Need
Reliable
Waterproofing?




BerrySeal
Waterproofing Solutions

- ✓ *There is no waterproofing product easier to apply and more effective than **BerrySeal***
- ✓ *Honestly, your mother-in-law could apply **BerrySeal** – let her try it !*
- ✓ *Polymer Solution – Eco-friendly*
- ✓ ***BerrySeal** - Cost effective & Long Lasting*
- ✓ *UV Stable – never becomes brittle*
- ✓ *Industrial strength*

BerrySeal

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BERRYSEAL



Berry Seal has been purposely designed as a high-tech, no nonsense water proofing solution for virtually any environment. It is the Swiss army-knife of waterproofing solutions.

Antiquated torch-on and bitumen based solutions are relegated to the past century.

In BerrySeal, thermosetting resins are used as the principal polymer component due to their high thermal stability and resistance to a wide variety of chemicals. In simplistic terms BerrySeal waterproofing solutions, is a combination of geotextile, BerrySeal emulsion and a modification of cement additive.

Since the polymer-modified cement is a composite of two entirely different types of materials, the characteristics of the key components, cement and polymer, will be briefly described:

Cement needs no introduction. Portland cement based concrete and mortar are among the most widely used construction materials in the world. Advantages includes, relatively low cost, high

stiffness, high compressive strength, non-flammability and ease of fabrication.

However there are some serious limitations, such as low tensile strength and brittleness which could affect the long term durability.

BerrySeal is an elastomer. BerrySeal modification of cement paste increases its tensile and flexural strength and eliminates its brittle nature. BerrySeal waterproofing is a multi-layered seal and is typically applied in 2-3 thin layers.

BerrySeal solutions are designed to provide protection from the harsh environment of outdoor weathering, especially the deterioration caused by UV radiation. One of the main influences on the polymer coatings performance is the amount and type of UV absorbers used in the coatings. Zinc Oxide (ZnO) nanoparticles provides long-term protection from harmful UV radiation in harsh environments. Zinc Oxide is an inorganic absorber, it does not degrade over time like organic UV absorbers.



SANS 5099
SANS 5266
SANS 5300

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The benefits of BerrySeal is that it is easy to apply, cost effective, with no joints and is environmentally friendly!

Applications Guidelines Per M²

- BerrySeal** - from a budgetary perspective, 1.1 litres of BerrySeal will be required per one m² (i.e. three layers applied)
- Cement** – 1.1 Kgs per m²
- Water** – approximately 100gms per m²
- Geotextile** – 1.1 x m²
- **King Tac 2 (4 x m²)**
 - 1 Kg King Tac 2
 - 340ml BerrySeal
 - 660 ml water

- Concrete roofs
- Tiled roofs
- Zinc roofs

Other Uses

- Fresh water storage dams
- Concrete reservoirs
- Sealing silos from water
- Tailing dams
- Canals
- Earthen irrigation dams
- Effluent dams
- Sewerage Oxidization Ponds
- Koi & fish ponds
- Waterproof tile grouting

Typical Equipment Required

Equipment required for the application of the BerrySeal is subject to the size of the area that is to be sealed. The product can be applied with virtually any paint brush or roller. Over large areas, one would normally spray BerrySeal over the area.

Small Area

- Mixing buckets (25 litres)
- Paint rollers with extensions
- Paint brushes

Large Areas

- Spray machine
- Compressor
- Pump
- Mixer for PolySeal & cement

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BerrySeal Typical Uses

Waterproofing Applications

¹ *King Tac 2 primer is used as a primer where the concrete surface is uneven or a little brittle. Or on any surface they may have bonding problems. King Tac 2 is applied prior to the geotextile being applied.*

Typical Product Required

- Berry Seal
- Cement (32.5)
- King Tac 2 (primer-coat)
- Geotextile



Concrete Structures

- Old Concrete Cracks** - If the existing structure is cracked, BerrySeal can be mixed into a paste with cement and used to fill the cracks.
- King Tac 2 will then be applied over the entire surface**
- Two coats of BerrySeal will then be applied over the entire surface**

- New concrete surfaces** – irrespective of the quality of concrete, the surface will develop shrinkage cracks.
- Apply a generous coat of King Tac 2 primer over the new concrete
- Roll the geotextile over the wet King Tac 2, which will basically glue the geotextile to the concrete
- Apply diluted PolySeal (1:1 with water) over the geotextile and allow to dry
- Apply a further two coats of BerrySeal /cement over the geotextile

BerrySeal + Cement + Geotextile

Zinc Roofs

- New roofs** – wash with Spirits of Salt to remove oil residue
- Apply King Tac 2 primer
- Apply two coats of Berry Seal 200

- Old Roofs** – apply three coats of BerrySeal 200

- Rusty roofs** – use metal brush and brush off rust
- Treat with anti-rust if required
- Patch any holes with geotextile and BerrySeal
- Apply 2-3 coats of BerrySeal 200 over entire roof



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Packaging

- 1 000 litre IBCs
- 200 Litre drums
- 25 Litre buckets

Note: We can rebrand and customise the label of the containers if required.

Advantages of BerrySeal Waterproofing

- i. BerrySeal Cannot burn. Fire retardant
- ii. UV stable
- iii. Alkaline and acid resistant
- iv. BerrySeal does not become brittle and will not crack
- v. Three layered system
- vi. Suitable for potable water
- vii. No joins – homogenous seal
- viii. 10 year warranty

Technical Info

A geotextile is used as the seals' membrane and allows for greater textile strength and protection against all elements. Once added with Polymer Pavement's polymer solution the membrane become more flexible, thus increasing the textile strength and the longevity of the waterproofing seal.

PolySeal Extreme Waterproofing

Test Results with Backing Material

Geotextile treated with one litre of PolySeal mixed with one kg of Portland cement

BerrySeal Test Results

Product Type	g/m2	mm	*N	**kN	%	N	kN	%	N	%
	Weight	Thickness	Tensile MD		Elongation MD	Tensile CD		Elongation CD	CBR	Elongation MD
Berryseal 150	1092	1.54	2602.7	13.0	30.8	2112.9	10.6	35.1	1829.7	40.7
BerrySeal 200	1540.7	2.44	3239.7	16.2	45.8	2464.4	12.3	61.8	2048.2	49.4
BerrySeal 270	1339.3	2.12	3551.5	17.8	41.7	3440.5	17.2	39.4	3274.1	47.2
BerrySeal 300	1244	1.75	4972.5	24.9	27	4417.7	22.1	30.1	3483.2	35.6
BerrySeal 340	1318	2.34	4715.5	23.6	40.0	3642.7	18.2	50.9	3356.8	47.2
BerrySeal 400	1532	3.78	5278.3	26.4	32.3	6083.3	30.4	31.8	4477	38.6
BerrySeal 500	1946	4.35	6215.2	31.1	38.2	4254.4	21.3	54.6	4651.1	45.9
BerrySeal 550	2241.3	4.51	5640	28.2	53.3	5992.4	30.0	42.2	3801.4	42.8
BerrySeal 600	2081.3	4.24	7105.1	35.5	44.6	5941.2	29.7	44.9	5692.2	45.7
BerrySeal 800	2672.7	5.51	7866.3	39.3	58	8100.3	40.5	54.2	6531	52.4
BerrySeal 1000	2578.7	6.73	9322.6	46.6	53.6	9507.4	47.5	64.2	8330.1	50.2
BerrySeal 1200	2503.3	6.96	8392.6	42.0	49.4	9160	45.8	54.2	7739.4	47.1
BerrySeal 1500	2826.7	8.15	8057.3	40.3	78.6	13678.7	68.4	55.7	10725.9	57.1
					MD - Machine direction	CD - Cross direction			CBR - Static Puncture Test	

*N = 200mm samples as per the EN-ISO test standard

**kN = N result is multiplied by 5 to represent 1m² and then divided by 1000 to get the kN strength



BERRYSEAL GUARANTEE

- BerrySeal is guaranteed for a period of ten (10) years from any UV damage, although life expectancy is expected to far exceed fifteen (15) years.
- The warranty includes a site inspection and general survey report of the visible BerrySeal geoliner every two years.
- At the end of the 10 year guarantee period, if requested by the customer, a survey may be completed on the BerrySeal waterproof geoliner and a written report with maintenance recommendations will be drafted and presented to the customer.
 - Possible recommendations could be a single application of BerrySeal over exposed areas, during the dry season. Costs should be very reasonable with a single application of BerrySeal (no geoliner required)
- A guarantee certificate will be issued by Polyroads. This certificate must be presented should a claim arise

GUARANTEE INCLUDES:

- i. The BerrySeal liner remaining waterproof
- ii. Cracking of the BerrySeal geoliner
- iii. Tearing of the BerrySeal geoliner due to weathering
- iv. Undue weathering of the BerrySeal geoliner, causing exposure of the underlying substrate
- v. Acidic waste damage

GUARANTEE EXCLUDES

- i. Any damage caused due to external factors such as, mechanical damage (machinery), humans, weeds, rocks, pipes or animals
- ii. Damage due to ground settlement or concrete movement
- iii. Discolouring due to weather, dirt or dust
- iv. Guarantee is null & void if product is not applied by a Polyroads Application specialist or one of their certified applicators Berry King Waterproofing.

GUARANTEE LIMITATION

- i. The guarantee is limited to the re-supply and application of BerrySeal and the geosynthetic liners as per the original proposal



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