

VX Guardian Bitseal 480 is a water-based rubber modified bitumen thixotropic emulsion. It dries to form a black coating which is elastic, non-permeable to water and resistant to mild chemical solution and excellent weathering resistance and is odourless and taint free.

USES

- Roof waterproofing, basement tanking, floor and wall damp-proofing.
- As a binder for sand or aggregate mixes to provide flexible protective mastic or pavement.

TECHNICAL DETAILS

Appearance	Wet - Dark Brown Dry - Black
Chemical and Water Resistance	Resistant to water, alcohol, most salt solutions and some dilute acids and alkalis. Not resistant to oils, solvents and strong detergent solution.
Flexibility	Provides a firm but flexible coating within the service temperature range of 5 °C to 50 °C.
Flash Point	NO FLASH POINT. VX Guardian Bitseal 480 is a water-based material.
Fire Resistance	Wet : Non-inflammable. Dry : will burn, but no flame spread.
Heat Flow Resistance	The cured film will not flow or sag under direct sunlight.
Setting or Drying Time	Under indoor condition at room temperature of 30 °C and relative humidity of 80%, a wet thickness of 0.6 mm shall dry in 4 hours' time.
Shrinkage Factor	Approximately 45% when fully dried
Toxicity	Non-toxic

STORAGE LIFE

12 months under good storage conditions and undamaged containers. This material is subject to damage by frost or heat and should be stored at temperature between 5 °C and 40 °C.

PACKAGING

20-litre pail
200-litre drum

HANDLING PRECAUTIONS

Clean hands and tools with cold water when wet and use kerosene or solvents when dry.

TECHNICAL DATA

Parameter	Standards	Specification
Form/Consistency	-	Non-drip thixotropic paste of brushing consistency
Solid content, %	ASTM D2939	55.0-63.0
Density, g/cm ³	ASTM D1475	0.96-1.20
Penetration (cone), dmm	ASTM D217	300-380
Tensile strength, MPa	ASTM D412	≥ 0.2
Elongation at break, %	ASTM D412	≥400
Water vapour transmission, g/m ² /h	ASTM E96 (water method)	Approximately 0.4
Pull-off adhesion (N/mm ²)	ASTM D7234	Approximately 0.4
Shore A Hardness	ASTM D2240	58.7
Accelerated weathering & UV exposure (QUV)	ASTM G154 ISO 4628	No blistering, cracking, flaking or chalking (Total exposure: 1000 hours)

APPLICATION

VX Guardian Bitseal 480 may be applied by squeegee, brush, roller, steel trowel or spray. Stir thoroughly before use to maintain homogeneity.

Surface preparation and cleaning shall be made on the area by removing loose and friable material, protrusions by using soft broom stick or cleaning with water to remove fine dust from the surface. Oil, grease and paints or other contaminates shall be removed by using rug cloth and paint scraper respectively.

It is recommended to prime surfaces with diluted 20-30% VX Guardian BitSeal 480 at a coverage of 0.3-0.6 liter/m²/coat. More porous or absorbent substrates will require a higher rate of coverage.

Follow with at least 2 layers of VX Guardian Bitseal 480, after the priming coat has dried (2-4 hours). Each coat should be applied with a coverage of 0.6 litre/m²/coat. A higher rate of coverage is required for more porous substrates.

Allow to completely dry for at least 24 hours and finish by applying a concrete protection screed or a coloured mastic finishing.

Application Temperature Limits

5°C to 50°C