

Bituseal E100

Cold Applied Flexible Bituminous Protective Coating

Description	Medium viscosity flexible bitumen base protective coating. It is a blend of selected bitumen rubber emulsion and special polymer, which dries to form a flexible, waterproof, damp-proof bitumen film resistant to mild soil acids and salty water. It is suitable for hot and tropical climates. It complies with ASTM D1227 type 3 class 1, ASTM D2939, ASTM D412.
Where to use	• Bituseal E100 provides a continuous barrier against water ingress thus, it is considered a water & vapor barrier damp-proof course for belowground concrete protection • Below ground concrete protection • Concrete slabs of bathrooms, roofs and balconies • Concrete curing by water retention • Steel & concrete pipes • Corrosion protection to metal surfaces • As an adhesive for poly foams
Advantages	• Easy to use as it is a single component • Very economic • Resistant to most naturally occurring chemicals such as light acids, alkalis, chloride and sulphate ions • Can be applied to damp concrete substrates • Quick drying & impermeable to water • Excellent adhesion to most common building substrates • High coverage rate • Good mechanical properties • Does not crack at low temperatures • Non-sagging • Unaffected by high temperature
Properties	
Specific Gravity at 23 °C	1.0 ±0.05
Rubber Content %	9 ±2
Heat Resistance	-30 °C/ +100 °C
Tack free time	1 – 2 hours
Over-coating time	2 – 4 hours
Full cure time	4 Days
Water vapor transmission	3 g/m ² /day
Tensile Strength	1.03 N/mm ²
% Elongation	60 %
Surface Preparation	• All surfaces must be clean, free from grease, oil • Dry concrete should be wetted • All surfaces must be firm and thoroughly clean • Holes and joints must be filled with KemRepair • Ambient air & substrate temperature (+5 °C/ +55 °C)
Mixing	• Add 5 – 10 % of clean water and stir to a homogeneous consistency

Application	• For hot, dusty & porous concrete, apply a prim coat of Bituseal E100 diluted with an equal amount of water and allow drying • Apply Bituseal E100 in 2 coats depending on degree of protection required • Bituseal E100 can be applied by brush, squeegee or spray • Where Bituseal E100 is to be topped with a screed, the second coat should be brushed off when re-coating as dried • Bituseal E 100 can be reinforced with Kemfelt EG (75 g/m²) for joints and roofs
Theoretical coverage	• 0.25 – 0.3 Kg/m² /coat at 75 - 100-micron D.F.T • 0.75 - 1 Kg/m² /coat (reinforced) at 1000 microns D.F.T • 2 coats are recommended
Packaging	15 Kg Pails 200 kg Drums
Shelf life & Storage	12 months, when unopened
Health and Safety	• This product is of low toxicity but normal precautions should be observed • Wear gloves, and if working overhead or spraying, wear goggles • Wash off any skin splashes with soap and water • Eye contamination should be treated by irrigating the eye with an eye bathing solution • Ensure adequate ventilation in confined spaces and use breathing aids • If ingested, drink milk or water and seek medical attention
Additional Information	PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble-free durable structures. PROKEM designs tailor-made products should there be a critical application that requires specific properties rather than our main range, then and for our customer's satisfaction PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current terms of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products.