

KGM-800

Non-Solvent Bitumen Rubber Membrane Technical Data Sheet



Description

KGM-800 is a flexible, solvent-free, polymer-modified bitumen rubber membrane. It is designed for a wide range of waterproofing applications over multiple building substrates. KGM-800 is water-based and has excellent sealing and adhesion properties. It has the ability to handle permanently wet conditions once cured and is odourless and easy to use.

Uses

KGM-800 has been formulated for use on retaining walls, underground waterproofing and sealing failed or aged bitumen surfaces. It is also used as a protective coating for metal surfaces and wood.

Typical Areas of Application

- Retaining walls
- Underground waterproofing
- Sealing failed or aged bitumen surfaces
- Protective coating for corrosion of metals and wood rot eg. gutter & roof repairs
- Damproofing

Advantages

- Solvent-free, non flammable and non-toxic
- Flexible
- Water-based and odourless
- Excellent adhesion properties to porous and non-porous surfaces
- Bonds to asphalt & bitumen surfaces which is ideal for repair of failed and aged coatings
- Once cured, will not re-emulsify
- Excellent sound-deadening properties
- Easy to use
- Able to withstand continuously immersed areas
- Protective coating against corrosion, rot and salt damp

Design Criteria

All works must be carried out as per Australian Standards AS:3740-2010 "Waterproofing of Wet Areas within Residential Buildings", AS:4654.2-2012 "Waterproofing Membrane Systems for Exterior Use" and AS/NZS 4858-2004 "Wet Area Membranes".

Special consideration is needed with every application of waterproofing. For applications not listed above, please contact your nearest KGM supplier for a project specific recommendation.



Physical Properties

Form:	Flexible liquid
Colour:	Black/Charcoal - wet Black - dry
Specific gravity of mixed product:	1.15kg/litre
Solids Content:	>68%
Elongation - cured:	> 470%
Elongation - after chemical immersion	>300%
Tensile strength:	>0.3MPa
Water vapour transmission:	1.35g/24h/m ²
Shore A hardness:	54
Packaging:	15 litre bucket
Curing:	Re-coat: 4 hours @ 23°C Dry film: 24 hours @ 23°C Backfilling/toppings: 4 days @ 23°C
Clean-up:	Use water when wet; use solvent cleaners or by mechanical means when dry

Coverage

One 15 litre bucket should be applied at a minimum of two coats at a total minimum coverage of 1.5L/m² forming a minimum dried film thickness of approximately 1.2mm.

Storage

KGM-800 can be stored unopened for 12 months, based on manufacturers batch date, in a cool, dry place below 23°C.

Application Instructions

1. **Prep work** - surfaces must be made good and should be sound, stable, dry, clean and free from contaminants such as dust, loose flaking material and substances that may diminish adhesion.
2. **Priming** - substrates are recommended to be primed before applying the membrane. KGM-800 is able to be diluted and used as a primer for porous surfaces at 3 parts (volume) water to 1 part membrane. Ensure a smooth homogenous consistency is formed.

KGM-500 primer can be used for surfaces with residual moisture or subject to rising damp. Refer to Technical Data Sheet for specific coverage details. Allow primer to dry for a minimum of 24 hours before applying membrane.
3. **Detailing**- If being used in tanking and waterproofing applications, KGM-800 requires a suitable bond breaker at all substrate junctions including wall/floor junctions and wall/wall junctions. Reinforcement fabric or bond breaker joint tape is recommended to be used that is compliant with waterproofing standards and building recommendations.
4. **Membrane Coating** – stir well before use. Do not thin product down. Apply KGM-800 liberally to surface area by brush or roller. Apply a minimum of 2 coats. To perform correctly, a total minimum coverage of 1.5L/m² is recommended. For heavier sealing properties, coverage can be increased to 2.0L/m² with subsequent coats. KGM-800 can be applied to both vertical or horizontal surfaces using a roller or brush.

Limitations

- Do not apply when air temperature is below 10°C and above 30°C. Do not allow to freeze.
- Product is not designed for foot traffic as it is not a trafficable membrane.
- It is not to be used as a membrane under tiles, screeds, renders where direct adhesion is required.
- Do not apply product directly onto damp surfaces or areas subject to negative hydrostatic conditions.
- Do not apply over glass or glazed surfaces
- Not designed as a sealant for expansion or control joints
- Not to be used in areas where solvent or petroleum-based products may be spilled
- Do not thin product in any form.

Safety

Before using or handling materials, please read all relevant Material Safety Data Sheets (MSDS). KGM-800 is user-friendly and safe to use, however avoid contact with skin and eyes. Wear suitable gloves and eye/face protection. Product is non-flammable.

Warranty

The seller warrants that at the time of shipment its products are free from manufacturing defects and, when applied in accordance with the current specification and application instructions, will perform as so stated in its product literature. Project specific warranties are available on request. Please consult your nearest distributor for further information.

Product Disclaimer

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard. Our instructions and recommendations are only for the uses they are intended. KGM Australia does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product. We also reserve the right to update information without prior notice to reflect ongoing research and development programs. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with any relevant items.

Technical Support

For any additional information not expressed in this document, please contact us via the details below.