

TOUGH • GREEN • GREATEST ELONGATION

PROTECTIVE WATERPROOF COATING
TO PROLONG THE LIFE OF ROOF SURFACES

KEMSEAL S-80



100% SILICONE
ROOF COATING

SOLVENT FREE

Available from:



31 Newtown Street,
Bromley, Christchurch

Ph: 0508 SEALCO
E: admin@sealco.co.nz
W: www.sealco.co.nz



Kemforte
SYSTEMS

KEMSEAL S-80 Silicone Roof Coating

TECHNICAL INFORMATION

DESCRIPTION:

Kemseal S-80 is a 100% solids fluid applied single component elastomeric silicone polymer roof coating that cures to provide a long term waterproof and weatherproof protective seamless membrane layer for roof surfaces. Kemseal S-80 is manufactured using advanced silicone technology to provide superior UV protection and ponding water resistance that prolongs the life of all existing roofing systems providing immediate and long term cost and energy savings.

Kemseal S-80 coating (white) meets Cool Roof reflectance performance requirements for both flat and sloped roofs considerably reducing thermal heat intake into the building, saving considerable building energy cooling costs.

USE AREAS:

Kemseal S-80 silicone polymer coating is designed as a protective coating to seal and repair existing roofs and permanently protect against leaks, ponding water, UV and weather. It can be applied to existing aged roofing substrate such as sprayfoam, EPDM, aged PVC and TPO, smooth surfaced BUR, granulated modified bitumen and metal roofs. It is an excellent alternative to most costly tear-off and re-roofing options. It can also be used as waterproofing for new building on concrete or plywood roof substrates.

GENERAL:

COLOR: Standard; white and gray.

WEATHERABILITY: Excellent durability, color stability, UV and chalk resistance.

TOXICITY: Not for use in contact with edible substances or potable water.

ADHESION: Bonds to suitably prepared and primed surfaces such as aged asphalt, aged EPDM, aged cap sheet, composite, concrete, fiberglass, metal, modified bitumen, sprayed polyurethane foam and most existing coatings on flat or sloped roofs.

ELONGATION: 200% ± 10%

TEAR RESISTANCE: ASTM D1624 Die C lbs/inch 32 pli (5.7 kg(f)/cm)

HARDNESS: ASTM D676 50 Shore A

COVERAGE: Un-reinforced Application: 1.35 Gal/100 sq.ft (1.8 Sq. Meters/L or 0.55ltr/sq.m.) per coat on smooth surface roofing substrate. Coverage rate will decrease on textured surfaces, and more coating will be used on first coat than on additional coats. Existing smooth surface roofs can be completed in 1 or 2 coats at 22 min. DFT. Reinforced/Detail Application to be at 2.8gal/100sq.ft (1.13ltr/sq.m) to achieve min 45 mil DFT.

SHELF LIFE: 12 months from date of manufacture stored at 70 degrees F in a cool dry place.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION:

All surfaces shall be sound, fastened as per manufacturers' directions, clean, dry and free of corrosion, oils and other contamination. Waterblast, wire brush/sandblast roof surfaces as necessary to remove all contaminates and weathered substrate. Prime/seal asphalt, EPDM, concrete and single ply roofing with Kemseal WBE water based epoxy primer applied as per data sheet- this also acts to resist bleed-through over asphalt surfaces. Varying substrates may require alternate products or treatments. Check adhesion by applying a test area.

DETAIL:

Detail requirements may vary depending on specific site and substrate conditions. Typically, a liberal application of Kemseal S-80 mastic grade sealant and/or a detail coat of Kemseal S-80 Coating at 40 mil thickness, reinforced with polyester fabric embedded into wet base coat and centred over joint should be applied where movement between surfaces is expected such as at fasteners, joins, laps, cracks, terminations, penetrations and internal/external corner angles etc. Heavier application and bond breaker tape may be required where increased movement is expected.

APPLICATION:

MIXING: Mix before application to assure uniform color and consistency. Product should not be thinned.

A minimum of 1 or 2 coats are required applied at 1.35 gal/100sq. ft. (0.55ltr/sq.m) with a minimum DFT of 22mils over existing roofing substrates or 2.8gal/100sq.ft (1.13ltr/sq.m) 45mils DFT over other substrates such as concrete or plywood. To help ensure even coverage, a different color may be used for the first coat to create a color contrast. Apply by brush, roller or spray. Allow the first coat to dry for 3 to 12 hours prior to re-application.

Use a 1/2" nap roller cover- dip roller directly into pail and apply, or pour product onto flat roof surface and roll out evenly, or -spread with an 1/8" notched squeegee then immediately back roll for a smooth, even finish. Alternatively, apply with airless sprayer sprayed evenly to achieve consistent coverage.

Textured surfaces may require additional coat/s to achieve a final minimum 22 mil dry film build.

PRECAUTIONS: Do not apply in temperatures below 50°F, above 100°F or if rain is expected within 2 hours. Do not use this product in a situation that exceeds this products physical limits.

Do not walk on Kemseal S-80 other than for periodic maintenance; for areas of light foot traffic, create a walking path by applying an additional coat reinforced with polyester Tie-tex cloth, or rubber granules.

DRY TIME: Allow the first coat of Kemseal S-80 to dry for 3 to 12 hours. Re-coat as soon as the first coat can be walked on without causing damage. NOTE: drying time depends on weather conditions such as temperature, humidity and air movement.

CLEAN UP: Application tools and equipment can be cleaned with xylene or 100% pure mineral spirits before cure. Once a container of Kemseal S-80 is opened, the curing process will start. Use the entire contents of an opened container if possible. Unused product in an open pail will begin to cure from the top down. This can be cut out with a knife and uncured portion can be used.

MAINTENANCE: Roof structures may settle over time. A periodic inspection of your roof, which includes transition areas, flashing, vents and skylights, is recommended. Keep drains cleared at all times. Roofs become slippery when wet- use extreme caution. Kemseal S-80 may be re-coated periodically after thorough cleaning as necessary to achieve adhesion.

CAUTION: For specific Health and Safety information please refer to the Material Safety Data Sheet.

California Proposition 65 Warning: This product may contain chemicals known to the State of California to cause cancer, birth defects and/or reproductive harm.

DISCLAIMER: The information contained in this technical bulletin is as up to date and correct in detail as possible and is intended to give a fair description of the product and its capabilities based on actual service history. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and that the product is not used beyond its physical limitations. As the use of this material is beyond the manufacturers' control, no guarantee expressed or implied is made as to such. Liability is limited to replacement of material proved faulty. Kemforte Systems terms and conditions of sale apply. The user is responsible to follow current data sheets.

KEMSEAL WBE Water Based Epoxy Primer/Sealer

DESCRIPTION:

KemSeal WBE is a two component water based epoxy sealer/primer that provides excellent adhesion to most prepared existing roofing substrates including single-ply and asphaltic membranes, concrete, metal and plywood. Kemseal WBE is used to promote substrate adhesion prior to application of roof coatings such as Kemseal S-80 silicone, Kemseal AC and other roof coatings. Kemseal WBE will adhere to most common roofing substrates, and most roof coatings will adhere to it.

USE AREAS:

Recommended for priming aged and new roofing substrates such as single-ply membranes, two-ply and smooth surfaced built-up roofing systems, concrete, metal and plywood, prior to the application of Kemseal S-80 Silicone and Kemseal AC Acrylic roof coatings.

PRINCIPAL FEATURES

- Waterbased, user friendly
- Low odour
- Excellent water resistance
- Excellent adhesion to most existing roof surfaces
- Applicable to slightly damp surfaces
- Most roof coatings will adhere to Kemseal WBE
- Excellent vapour and stain blocker

APPLICATION

All surfaces to be free of contamination, sound and not more than slightly damp. Kemforte recommend a trial test area to ensure substrate adhesion. Thoroughly pre-mix pack A and pack B separately before using. Then, add equal parts by volume of pack A and pack B together into a mixing pail and power mix thoroughly for 5 minutes. Kemforte WBE may be diluted with water up to 10%, depending on porosity and nature of substrate- only dilute AFTER packs A&B are thoroughly mixed together. Apply mixed product in 1 or more coats by brush, roller or spray at 200-300 sq.ft/gal (5 - 8 m²/Litre) per coat, to provide a seamless consistent application. Care should be taken to fill all voids and pin holes. Time between coats is 1-5 hours at 70 deg F. Minimum cure temperature is 55 deg F. Do not apply at Relative Humidity above 85%. Surfaces may be slightly damp but not wet. Overcoat Kemseal WBE as soon as possible after cure but not more than 3 days or 24 hrs in direct sunlight @ 75 Deg F. See Kemseal WBE MSDS before use.

GENERAL INFORMATION

SHELF LIFE: 12 Months. Store above

POT LIFE: 1-2 hrs, depending on temperature and humidity. If spraying, keep mixed material circulating, especially in warm weather. Do not allow to cure in lines.

TOUCH DRY: 1-4 hrs, depending on porosity of substrate and atmospheric conditions.

FULL CURE: 5 days

WEATHER RESISTANCE: Coat over within 2 days of application (1 day in direct sunlight)

COLOR: Grey.

MIX RATIO: 1 Part A: 1 Part B

CLEAN UP: Clean equipment with water before curing commences

STORAGE: Above 50 Deg. DO NOT ALLOW TO FREEZE.

Available from:



31 Newtown Street,
Bromley, Christchurch

Ph: 0508 SEALCO
E: admin@sealco.co.nz
W: www.sealco.co.nz