

Kemcrete

Packaging

Mixing - Primer

Mixing - Bonding Slurry

Mixing - Mortar Additive

Uses - Primer

Application

Uses - Bonding Slurry

Application

Substrates

PRIMER
Concrete, Brick,
Block, Render,
Building boards
ADDITIVES
Concrete, Brick,
Block, Render

Primer/bonding & waterproofing additive

Description

Kemcrete is an acrylic liquid based admixture and primer for structurally sound concrete and mortar mixtures.

Uses

Primer – use to bond screeds, renders and concrete toppings to porous concrete, brick, block etc. (Do not use as a primer in permanently immersed applications i.e. pools, tanks, etc., use **Bonding Slurry**).

Bonding Slurry – primer for immersed applications.

Mortar Additive – use to make waterproof renders, floor toppings, graded screeds, renders and patching compounds.

Kemgrip Additive – improves bond strength and water resistance of **Kemgrip** ceramic tile adhesives.

Features

Primer

Kemcrete	Water	Coverage
1L	1L	15m ²

Bonding Slurry

Kemcrete	Cement	Coverage
1L	1kg	4m ²

Mortar Additive

Kemcrete	Water	Cement	Sand
1L	2L	1 part	3 parts

Kemgrip Additive

Kemcrete	Water	
1L	4L	Add to 20kg bag Kemgrip

Coverage (Approximate)

Primer
15m²/litre

Bonding Slurry
3-4 m²/litre

Mortar Additive
1m²/litre (10mm thick in a 3:1 sand/cement mix)

Performance Data

Primer

Shear bond strength (kgf/cm ²)	No Bond Coat	PVA	Kemcrete
7 day dry	2:25	6.26	26.65
28 day dry	2:25	6.54	35.72
7 day dry-7 day wet	6.26	7.45	20.04

Additive

	3:1 Mortar	Kemcrete/Mortar 1L Kemcrete : 2L water 1 cement : 3 sand	
	Dry	Wet	
	Dry	Wet	
Tensile strength	3.1 N/mm ²	1.8 N/mm ²	5.1 N/mm ² 4.8 N/mm ²
Flexural strength	7.2 N/mm ²	5.9 N/mm ²	12.4 N/mm ² 11.6 N/mm ²
Adhesion to concrete	0.1 N/mm ²	0.3 N/mm ²	4.0 N/mm ² 1.7 N/mm ²
Adhesion to steel	Nil	Nil	1.8 N/mm ² 1.6 N/mm ²

Specification

The Primer/bonding additive should be acrylic based having a minimum solids content of 40% such as **Kemcrete** manufactured by **Construction Chemicals** and shall be applied strictly in accordance with the manufacturer's instruction.

Surface Preparation

The surface to be treated must be free from dirt, dust, grease, oil, efflorescence, laitance and other contaminants.

Application

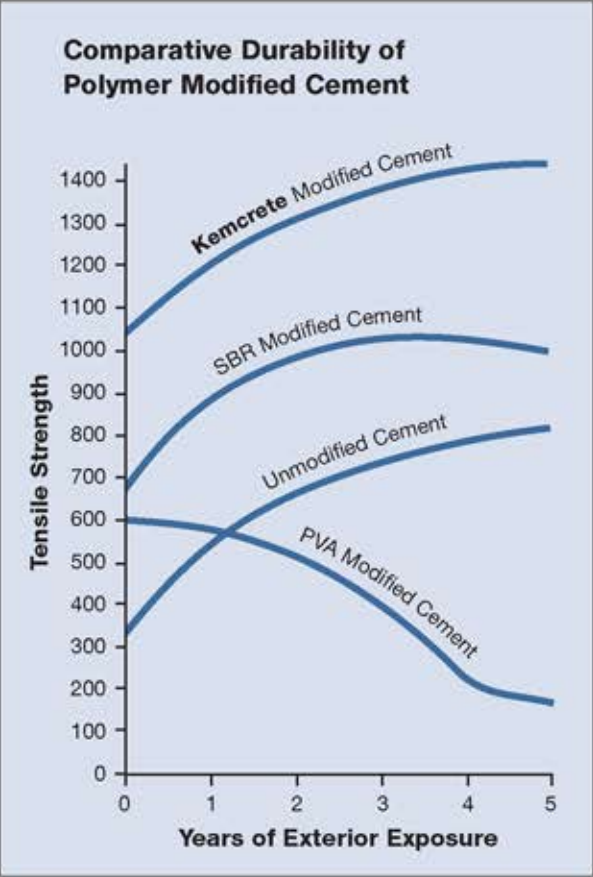
Primer – Dilute 1 part **Kemcrete** with 1 part water. Apply with a broom or brush, forcing it into the surface pores. Wait 15-30 minutes before applying the new topping.

Bonding Slurry – Mix one part **Kemcrete** with one part cement to make a stiff brushable mixture. Apply the mixture with a stiff broom or brush to the dampened surface forcing it into the pores of the surface.

Mortar Additive – Mix the **Kemcrete** with water prior to mixing with cement and sand as directed. Adjust mix to suit user's preference.

Kemgrip Additive – Mix 1 litre of **Kemcrete** with 4 litres of water and mix with **Kemgrip**.

Additive



Shelf Life

2 years

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