



# CL – KOTE 22AR

## ANTI-ROOT ELASTOMERIC WATERPROOFING MEMBRANE COATING

### DESCRIPTION

**CL-KOTE 22AR** is an acrylic based liquid elastomeric coating formulated with anti-root additives to waterproof concrete substrates which require protection against damages from vegetation roots penetration. It is workable for fibrous root system plant, but not for tap root system plant or trees. On installation, CL-Kote 22AR dried up to form a tough, seam free and elastic waterproofing membrane. Roots from plants and vegetation growing towards the CL-Kote 22AR waterproofed concrete structure will be repelled at the coated surface thereby arresting the vegetation roots from further growing into and damaging the concrete structure. CL-Kote 22AR can be applied on concrete, fibrous cement sheet, concrete block, cement render and GRC of planter boxes, roof gardens, landscape terraces and the like. A protective screed is required on top of CL-Kote 22AR prior proceeding to planting.

### FEATURES

- Excellent anti-root properties.
- Easy to use. No mixing and dilution are required.
- Excellent adhesion that prevents the spread of water beneath the membrane.
- Forms a complete homogenous waterproofing membrane with no laps, joints or over flashing.

### TECHNICAL INFORMATION

Elongation at Break (ASTM D412:2006)	: > 300%
Tensile Strength (ASTM D412:2006)	: > 2.5N/mm <sup>2</sup>
Adhesion to Concrete (ASTM D4541:2009)	: > 0.5N/mm <sup>2</sup>
Crack Bridging (ASTM C836:2005)	: No crack at 2 mm width
Water Penetration (DIN 1048:Part 5:1991)	: No water penetration @ 0.2kgf/cm <sup>2</sup> for 6hr

### SURFACE PREPARATION

Surface to be waterproofed must be sound, clean - free of dirt, dust, grease, oil, wax, curing compounds and other contaminants. For cracks, voids, chipped edges, uneven surfaces and holes are to be repaired with CL-Rapid Repair. Fresh concrete must be cured for at least 14 days prior to application.

### PRIMER APPLICATION

Apply one coat of CL-Primer P1 to the surface by brush or roller at the rate of 0.15 – 0.2 kg per m<sup>2</sup>. Coverage will vary according to surface profile and porosity of the substrate. Allow it to dry (approx. 20 minutes) before proceeding with CL-Kote 22.

Alternatively, CL-Pruf 501 or CL-Pruf 503 is recommended to be used as primer for overcome bubbling problem especially for roof top application. Damp the substrate and apply at the rate of 1.0kg/m<sup>2</sup> and leave it to dry for at least 8 hours prior membrane application.

### APPLICATION

Apply CL-Kote 22AR by brush or roller at the rate of 1kg per m<sup>2</sup> per coat. Minimum 2 coats to be applied, additional coats are required for thickness buildup. To enhance the strength, it can be reinforced by CL-Fabric. This is done by fully and completely embedding the reinforcing fabric into the first coat when wet and “back rolling” with more coats of CL-Kote 22AR. The reinforcing fabric should be fully saturated with and over coated by the subsequent application of CL-Kote 22AR. Allow to thoroughly dry for a minimum of 2 hours for each coat. Longer time or overnight drying may be necessary in cooler or adverse conditions. Insufficient of drying will cause re-emulsification problem when contact with water. Thereafter, a protective cement sand mortar screed of not less than 25mm shall be installed over the said CL-Kote 22AR waterproofing system.

### TOOLS CLEANING

Wash with water immediately after use. Use xylene for partially cured residue.

### COLOUR

Light grey.

### SHELF LIFE

2 years in an unopened container, stored in cool and dry place.

### PACKING

Available in 20 kg pail.

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Disclaimer: Specification are subject to change without notification.



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