

CHEMFLEX AC

**SINGLE COMPONENT, EASY TO USE, FLEXIBLE
WATER PROOFING COATING BASED ON ACRYLIC CO POLYMER**



PRODUCT DESCRIPTION

CHEMFLEX AC is an Acrylic Copolymer based elastomeric coating which forms an excellent, flexible yet tough barrier to water. A single part system which when applied cures to form a UV resistant layer which resists water and other weathering elements.

RECOMMENDED APPLICATIONS

- For waterproofing of concrete and metal roofs
- As damp proof course under block work for restricting rising dampness
- For damp proofing of walls
- As a protective coat for EIFS and other building envelope systems.

PRODUCT FEATURES

- Flexible and Elastic : bridges up to 2 mm cracks in concrete, accommodates movements at corners
- Excellent adhesion to surface : Suitable surfaces would be concrete, metal and wood
- UV resistance : Blocks UV and resists any degradation caused by UV and other harmful rays
- Durability : Tough surface with high resistance to weathering effects
- Non Toxic – can be applied to surfaces exposed to clean water

APPLICATION TEMPERATURE

The application temperature should be between 5°C to 45°C. Application procedures may vary slightly depending upon site conditions. Recommended guidelines for the application of the coating system is as follows:

SUBSTRATE PREPARATION

The surface must be clean and structurally sound. Any loose surface should be chipped off and repaired. Sharp edges and protrusions should be levelled off to ensure uniform thickness build up. Use industrial grade detergent or degreasing compounds for removing oil or grease and wax contaminants. Cement laitance, mold release agents, curing membranes and other contaminants must be removed from the surface by grinding or scarifying followed by vacuum cleaning. Its recommended to paint all cracks on concrete surfaces with CHEMFLEX CM before the application of CHEMFLEX AC.

MIXING INSTRUCTION

Contents in the pail should be thoroughly stirred to ensure consistent viscosity and homogeneity. A primer coat is recommended on used older exposed surfaces. It seals the pores and stabilizes the surface. CHEMFLEX AC diluted with 20% clean water may be used as a primer coat. It will improve the bond strength of the coating. The drying time would be a minimum of 8 hours at 25°C.

APPLICATION PROCEDURE

CHEMFLEX AC can be applied by brush or roller, but is probably best applied using an air less spray. Apply the first coat of undiluted material at a coverage rate of 1L/m²/coat to get a Dry Film Thickness of 0.5 mm. It is important to ensure that each coat has to be cured totally before applying the next coat. Prior to the application of the second coat, a close visual inspection of the surface should be made for any pin holes or surface irregularities. The second coat should be applied at right angle to the first at the same coverage rate, to ensure a full unbroken coating to the substrate. For improved results a non woven geo-textile membrane can be reinforced in to the

PHYSICAL PROPERTIES

Color	White
Open time	30 min to 1 hour
Touch dry time	2 hrs @ 20°C
Specific gravity	1.25 (+/- 0.05)
Solid content	50% (+/- 2%)
Service temperature	-5 to 70 °C (Surface)

TECHNICAL DATA

Description	Test Method	Values
Tensile Strength	ASTM D 412	1.5N/mm ²
Elongation	ASTM D 412	> 200%
Crack Bridging	ASTM C 836	>2mm
Adhesion to Concrete	ASTM D 4541	0.75N/mm ²
Water Penetration	BS EN 12390	Pass
VOC	ASTM D 3960	<50g/ltr

first coat while it is wet at expansion joint areas and on the fillets in all corners. This will give an added reinforcement to the coating. Allow the coating to cure fully (72 hours) after which it can be made trafficable.

THEORETICAL COVERAGE

Manual application - 1.8 ltrs/ m² / mm thickness
Spray application – 2 ltrs/ m² / mm thickness

PACKAGING

20 Ltr pail

STORAGE AND SHELF LIFE

Store all materials in a covered, cool and dry place on a raised surface, preferably a wooden pallet. Avoid material allowing the material to freeze which will render the material unusable. If stored properly, CHEMFLEX AC has a shelf life of at least 12 months.

HEALTH AND SAFETY

Caution should be exercised while applying the product as it is with any other construction chemical. Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. If accidental eye contamination occurs, wash thoroughly with plenty of water and seek medical advice. If contact with skin occurs, it must be removed before curing takes place.

Above mentioned details and data are given based on the practical experience and applied testing. However as in most case as the application criteria differs from site to site it is required to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at a specified ambient and material temperature as per standard requirements and are subjected to a tolerance of 10%, unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed. Whilst Chemcrete’s endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advise, specification or recommendation of information given by it.