

TECHNICAL DATA SHEET: QUATRO ROOF SEAL

Quatro Roof Seal is a two part acrylic modified elastomeric cementitious coating for protecting concrete structures against water, vapor, ingress of chloride ions, attacks of acidic gases and alkalis. It cures to form a tough flexible coating having excellent waterproofing properties. Quatro is a blend of cement, selected hydrophobic fillers, polymers and graded silica sand in powder form. The liquid also contains acrylic co-polymers and wetting agents.



APPLICATION

Used as a waterproof protective coating for the following structures:

- General construction waterproofing of roof & terraces
- Wet area (bathroom, kitchen, balcony, swimming pool and other features. – moisture vapor barrier on facade damp proofing
- Inverted roofs, lift and inspection pits.
- Protection of exposed concrete structures like bridge decks

ADVANTAGES

- Good flexibility. Thermal co-efficient of expansion similar to that of concrete
- Good adhesion to both, porous and non porous surfaces
- Good mechanical properties
- Suitable for light pedestrian traffic
- Excellent durability, protection and UV exposure
- Non toxic, therefore suitable for use in potable water applications
- Resistant to carbon dioxide and chloride ion diffusion. (Forms a film that provides an anti carbonation coating over concrete. 1mm coating provides anti carbonation cover which is equivalent to over 75 cm of concrete)

TECHNICAL DATA

Appearance / Color	White	
Mixed density, [g/cc]	1.8 ± 0.02	ASTM D 1475
Pot Life	45 Minutes	
Tensile Strength	> 8 N/mm ²	ASTM D 412
Elongation	> 50%	ASTM D 412
Adhesion Strength	> 0.5 N/mm ²	ASTM D 4541
Crack Bridging	> 0.5 N/mm ²	ASTM C 836
Hydrostatic Pressure @ 5 Bar	No Leakage 50 m	BS EN 12390, Part 8
Hydrostatic Negative Pressure @ 3 Bar	No Leakage 30 m	BS EN 12390, Part 8
Toxicity	Non-Toxic	BS 6920 (WRAS)
Abrasion Resistance	< 75 mg	ASTM D 4060
VOC	< 50 g/l	ASTM D 3960 / D 2369
Drying Time	6 – 8 Hours	
Full Cure	7 Days	
Service Temperature	-5° to 70° C	
Storage Conditions	Dry	
Thickness of Layer	2 – 3 mm	
Packaging	Component A: 5 Liter Can, Component B: 22 kg bag	
Shelf Life	1 year	

SUITABLE SUBSTRATE

- Concrete
- Roof Slab
- Concrete Blocks
- Aerated Light weight blocks (AAC Blocks)
- Cellular concrete blocks (CLC Blocks)
- Masonary Bricks

SURFACE PREPARATION

The surface must be structurally sound and free of oil, grease, dust and other contaminants which will affect the bonding. Any structural cracks and potholes shall be repaired with SEED repair mortar. The surface to be treated should be presaturated with water prior to application. However, any standing water shall be removed prior to application.

MIXING

Quatro Roof Seal is supplied in two pre-measured parts which just requires on site mixing. Do not mix more material than that can be used within the pot life. Two Cans of Component A are mixed with one bag of Component B. Part mixing can be carried out by mixing 2 parts of powder with 1 part of liquid (by weight). Pour the liquid into a suitable container and slowly add the powder to the liquid. Mix the contents using a slow speed drill (300-400 rpm) fitted to a proprietary paddle mixer till a homogenous, lump free and creamy consistency is achieved. DO NOT ADD WATER TO DILUTE THE MATERIAL.

APPLICATION

It is recommended to apply Quatro Roof Seal in two coats to provide a minimum thickness of 2mm. Each coat shall be applied @1.8 kg/m² which will give a dry film thickness of 1mm. The coating can be applied with a stiff brush. After the application of the first coat and whilst the coating is still wet, embed a glass fibre mesh (CL 252 or similar materials) at all corners and other joints for added reinforcement. The second coat shall be applied after the first coat dries off completely (6-8 hours @25°C, 50% rh). For general protection against carbonation and alkali attacks, the coating can be applied in minimum 1mm thickness.

PROTECTION

Adequate protection needs to be provided for the coating in the following conditions:

- areas subjected to mechanical abrasion
- flowing water areas

The coating shall be cured immediately after it dries by wet hessian cloth or mist spraying for a minimum period of 72 hours. The coating will achieve its full mechanical properties within 7 days at 25°C and 50% rh.

WARRANTY

SEED Chemicals Pvt Ltd warrants that Quatro Roof Seal is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage, subject to the terms and conditions stated in SEED Chemicals Product Warranty.

LEGAL NOTICE

The information and, in particular, the recommendations relating to application and final use of SEED products are provided in good faith, resulting from the present knowledge and experience with the products when properly stored, handled and applied under normal conditions in accordance with the recommendations of SEED or its distributors. As long as the use and processing of the product is not subject to our direct influence, we will not be liable for any damages caused by its misuse. We reserve the right to make changes resulting from technical progress.

MANUFACTURER

SEED CHEMICALS (Pvt) Ltd, Pakistan

Address: Building #1, Civic Center, Phase 4
Bahria Town, Islamabad.

website: www.seedpk.com

Phone no: +92 51 5731544 , +92 51 2724373