



AL ZARINA
BUILDING SPECIALITY FZCO

TRICOSAL RMC

(FORMERLY GENPRUF RMC)

INTRODUCTION

A liquid admixture produced specifically for the complete and permanent waterproofing of reinforced and mass concrete (RMC) structures, ready mixed and precast concrete.

PRIMARY USES

Tricosal RMC should be used in all structural concrete that is constantly or intermittently in contact with water such as sea walls, tunnels, basements, underground water tanks, structural and pre-cast concrete, exposed super structures.

FUNCTIONS

- At the mixing stage it improves the wetting action of the gauging water, making the mix more plastic or allowing a reduction to be made in water content.
- It increases the compressive strength of concrete when use is made of water reducing properties.
- Concrete of increased workability and the same strength can be produced without altering the mix design.
- It improves the bulk density of concrete.
- When used for cement rendering, it improves bond strength and when hardened produces an impervious, non-absorbent surface.
- WRC approved to be used for potable water tanks and watering retaining structures.

ACTION IN USE

Tricosal RMC has both a chemical and physical reaction to the mix: firstly, it creates insoluble crystals in the hardened concrete which make it permanently waterproof. Secondly, by breaking down the surface tension of the gauging water, it enables a water reduction to be made or workability to be increased.

Tricosal RMC Integral Waterproofer in no way affects the setting times of concrete and it will not affect steel re-inforcement.

DIRECTION FOR USE

Tricosal RMC should be added with mixing water preferable via a dispenser. It should never be added to the dry cement. No extension to mixing times are required.

DOSAGE

250 - 400 ml / 50 kg bag of OPC. Field trials should be conducted to determine the effect of Tricosal RMC on workability of concrete.

SPECIAL FEATURES

Advantage of Tricosal RMC strong plasticising action must be taken to reduce water contents to a minimum. A reduction in W/C ratio in the region of 10 to 15% can generally be achieved.

COMPATIBILITY

Tricosal RMC is compatible with all types of Ordinary Portland Cement (OPC) including Sulphate Resistant Portland Cement (SRPC).

Reference	Initial Surface Absorption (ml/m ² /sec)				Reference	Initial Surface Absorption using Tricosal RMC (ml/m ² /sec)			
	10 min	30 min	1 hour	2 hour		10 min	30 min	1 hour	2 hour
Control					Control				
1.	2.08	1.17	0.98	0.81	1.	0.89	0.46	0.36	0.22
2.	2.68	1.66	1.49	1.28	2.	0.94	0.58	0.43	0.29
3.	2.45	1.68	1.41	1.23	3.	0.82	0.37	0.32	0.24
Average	2.40	1.50	1.29	1.10	Average	0.88	0.47	0.36	0.25

Effective as a permeability reducing admixture both under condition of pressure and capillary absorption. It can be used with complete safety with OPC and SRPC cements. It significantly lowers water cement ratio whilst maintaining workability without effecting compressive strengths.

STORAGE

Excellent shelf life of 2 years, protect from frost. Available in 210 litre drum.

PAKAGING

210 litre drum.

HEALTH & SAFETY

Harmless to the skin and non-toxic. Avoid contact with eyes. As a general code of safety practice, all chemical products should be treated with care and kept away from children and animals.

The information given in this datasheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site, conditions, etc.

Unit # 001, Building A1,
International Free Zone Authority,
Dubai Silicone Oasis, Dubai,
United Arab Emirates.

+971 4 346 2025

info@alzarinabs.com

www.alzarinabs.com