



# RAZON ENGINEERING COMPANY PRIVATE LIMITED

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## AN ISO 9001-2008 COMPANY SPRMC R 244

Retarder SPRMC R 244 is a High Range Water Reducer – Super Plasticizer cum retarder admixture which retains the workability of concrete. Beside it is also a powerful plasticizer. This unique combination of retarder-cum-plasticizer does away with double admixture of retarder + plasticizer where both features are necessary.

SPRMC R 244 is a High Range Water Reducer Retarder Plasticizer essential for:

- 1 Highly flow-able concreting, wherein large sections must be filled without the possibility for honeycombing. Besides SPRMC R 244 finds best application for high rib shear sections, wherein narrow sections must be pour filled by a cohesive mix to ensure a uniform fill between moulds.
- 2 Ready mix concrete plants where long haulage of ready mix mortar is required. Besides retarding, SPRMC R 244 gives cohesive & uniform mix enhancing concrete rheology profoundly.
- 3 Concrete in arid climate where temperatures above 40<sup>0</sup>- 50<sup>0</sup> Celsius are encountered.
- 4 For large duration of time between pouring and compaction, or when large volume of ready mix concrete is in process; to prevent cold joints.
- 5 If impaction and vibration to concrete is intended to be transmitted via vibration to reinforced steel which reduce bond between shell and initially poured concrete.
- 6 Combined features of retarder & plasticizer are found most useful to pump concrete over long distances.
- 7 Retarder SPRMC R 244 disperses cement by electrostatic forces augmenting mechanical mixing ensuring speedy, uniform, cohesive & homogenous mix.
- 8 SPRMC R 244 is powerful water reducer, which enhances concrete strength, & increases impermeability coefficient of concrete.

It is a tan colored liquid with specific gravity around 1.12, harmless to handle and long shelf life if stored in cool dry place.

Retarder SPRMC R 244 can be used with any kind of cement. However it is recommended that traffic and tests be carried out before use to establish input output parameters for design mixes. SPRMC R 244 is completely **devoid of chlorides** and hence has no deteriorating effect on reinforcements. It is considered as latest generation of improved RMC retarder. SPRMC R 244 is found to **delay the onset of setting by + 2 hours**.

Greater dosages may be used depending upon concrete design, water cement ratio, aggregates, setting time desired, required final strength, slump value requires etc. large retardation is

observed, if it is mixed with 1-2 Ltr of gauging water and added to the concrete mix few minutes after adding water.

SPRMC R 244 shows profound retardation in setting time of cement; enhances workability, possesses high wetting properties improves cohesion hence reduces segregation, increases ultimate strength, enhances concrete bonding to steel reinforcements. It is a boon to Ready Mix Concrete products.

No	SPRMC R 244	W/C	Cement	Setting Time	28 Days Strength	Slump
1	Nil	0.55	16%	45 min	28 N/mm sq	65 mm
2	500 ml	0.45	16%	2.5 hrs	35 N/mm sq	190 mm

No	PRODUCT DATA	
1	Colour	Tan Liquid
2	Specific Gravity	Approx 1.12
3	PH	6 +
4	Dosage	300 ml per bag up to 3% of weight of cement.
5	Packing	245 kg, tanker load on request
6	Storage/life	1 yrs, if be stored in cool dry place away from sunlight
7	Toxicity	Nil
8	Corrosion	Nil
9	Cement Compatibility	OPC, PPC.
10	Chlorides	Nil
11	Test Report	Available I S 9103-1979.
12.	Admixture as per ASTM C494	Type G

## OTHER PRODUCTS

**Coatings:** Rubberised Instant Waterproof Coating • White Water Proofer • Polyurethane Coating - GHF 111 • Triple Layer Polyurethane Waterproof/ Thermal Coating • Primer Coat PU SG 104 • Top Coat PU ALK – 104 • Silver Coat PU 104 • Clear PU Lacquer (gloss) • Clear PU Lacquer (matt) • Coal Tar Epoxy CTE – 110 • Coal Tar Epoxy EP-10 • Epoxy Coating EC-111 • Primer Epoxy Coating PR 111 • Silver Coating SC 203 • Epoxy Floor Coating G-78 AND M-86 • Damp Proofer • Bitumenous Japan Paint 151 • Supreme Royal Waterproof Cement Paint ARcem 1100 • Green Chromo Oxide Epoxy Primer •

**Admixture:** SPRMC 808 S11 B • Super Plasticizer –IWSP (M) – 101 • Super Plasticizer –IWSP (S) – 103 • Accelerator –2080 • Integral Water Proofer • IWSP –102 • I.W.P. Powder • Intrair (A.E.A) 120N • Master Plaster MP CS 101 • Block Maker BM-10 • Rapid Grout RG –117 • Tile Master TM – 1 • Anchorex 428 • Floor Hardner • Hycrete RJ – 608 • Brick Master • Super Paver • Pipe Master • Toughcrete P109 • Guniting Admixture GS-942 • Non Shrink Grout Admixture NSG A-11

**Other Products :** Tile Fix # 1 • Tile Fix # 1A • Tile Fix SP # 1 • Strextra NSG 110 • Strextra - NSG 2024 • Easy Grout • Water Repellent WBWR – 2023 • Water Repellent SBWR – 5000 • Shutter Coat for Wood & Metal • Concrete Cure Coating – 111 • Concrete Cure Coating – 103 • P.A. Bound • P.A. Mortar TH – 4 • PA. Mortar EF – 1 • P.A. Mortar • Metal Protect • RZ – Polymer ED Mortar • Special Grouting System Tuffar • ADMGP – 1 • P A – Resin 651XXX • Hak Safe AL 111 •



It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable