

RETARDER 55 R

Unique retarder with mild plasticizing properties

Material Description

Retarder 55R is a unique and special retarder which delays the hydration process, thereby can be used to retard concrete, mortar, cement grouts and all types of cementitious applications. It retards the initial and final set and in some cases behaves as a mild plasticizer as well. Compliant to AS 1478.1 – 2000, Type Re.

Areas of Application

- Hot weather concrete where control of initial and final set is important.
- White Cement concrete
- Mass concrete e.g. Roller Compacted Concrete for Dams / pavements
- High strength mixes, to control set of concrete particularly in high ambient temperatures
- Retarded mortar applications

Characteristics and Benefits

- Extension of initial and final set in numerous applications, such as structural in-situ concrete, RCC mass pours, piling concrete
- Increase in initial and final set
- Allows upto 5% water reduction in certain cases
- The strength gain of concrete containing Retarder 55R is enhanced slightly towards later ages.
- Extended life of ready-mixed mortars can be designed in conjunction with air entraining systems while stabilizing setting times according to specific project requirements.

Properties

pH	6.8 – 8.8
RD	1.15 – 1.19
Appearance	Amber to dark brown

Dispensing

Retarder 55R should be added to the concrete mix during the mixing cycle, at the same time as the water, or the aggregates.

Never add Retarder 55R to the dry cement. No extension to normal mixing time is necessary. Retarder 55R should be dispensed through a proprietary dispenser.

Dosage

The normal dosage range between 100 - 300ml per 100kg cement is recommended as a starting point. Dosages outside this range (upto 750 ml per 100 kg cement) can be used where improved workability, enhanced set retardation are required. The correct dosage rate in each specific application should be determined by correctly conducted trials – lab and field scale - under the supervision of a C-Stallion Africa Technical Sales Representative.

Concrete with Retarder 55R should be properly cured so that the ultimate strength of the concrete is higher than for normal concrete.

Care should be taken to allow for the effect on demoulding times.

Effects of over dosage: A severe over dosage of Retarder 55R will result in:

- Increased retardation of initial and final set
- Possible increase in workability

Compatibility

Retarder 55R can be used with all types of Portland cement and care should be taken when used in binary or ternary blends including sulphate resisting (Type V) through proper trials. For use with other special cements, contact your local C-Stallion Africa Technical Sales Representative.

Retarder 55R should not be premixed with other admixtures. If other admixtures are to be used in concrete containing Retarder 55R, they must be dispensed separately. If in doubt, consult your local C-Stallion Africa Technical Sales Representative.



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For premixed companies producing retarded mortars, use in combination with Air Entraining Admix. Dosage combinations for such applications will depend on the requirement and a C-Stallion Africa representative can suggest the dosage range.

Packaging

Retarder 55R is available in 1000 litre pallecons or 210 l drums.

Storage & Shelf Life

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Protect from temperatures below: 5 °C. The packed product is destroyed at low temperatures or by frost. Protect from temperatures above: 45 °C. The packed product will be damaged by high temperatures. Retarder 55R has a shelf life of 12 months.

Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

Disclaimer

Retarder -55R-ANZ-001-2025

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by C-Stallion Africa Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not C-Stallion Africa Ltd, are responsible for carrying out procedures appropriate to a specific application.

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