

PRODUCT DATA SHEET

SikaPlast® RMC 50

Low dosage, high performance plasticising and strength increasing admixture for concrete with set retardation properties

DESCRIPTION

Sikaplast RMC 50 is a high performance concrete plasticiser and water reducing agent. Unlike conventional lignosulphonate plasticisers it possesses the ability to increase early and ultimate strengths even at constant water cement ratios.

Sikaplast RMC 50 is designed to optimise hydration of the cement paste, subject to the mix design. When compared to a control concrete 28 days strengths are achievable in 7 days and similarly 7 days strengths are achievable within 3 days.

Sikaplast RMC 50 is a versatile product which can be utilised throughout a varying range of temperatures. It can be used as a standard plasticiser in the low dosage range through to a powerful retarder at the high dosage range.

- Improves surface finish, pumpability and trowellability
- Enables significant economies in mix design to be achieved thereby saving cement

USES

- To increase workability.
- To increase compressive strength.
- Hot weather concreting.
- To effect cement economies

FEATURES

- Highly effective over wide range of cement contents
- Higher early and ultimate strengths
- Low dosage
- Improves workability whilst at the same time increasing compressive strength
- Permits water reduction, in the region of 10% to 15%
- Increases impermeability and durability
- Reduces placing problems in hot weather concreting by improving workability and workability retention

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September 2025, Version 03.04

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PRODUCT INFORMATION

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| Composition | Modified lignosulfonates |
| Packaging | 1000 L flowbin or bulk supply in tanker |
| Colour | Dark Brown |
| Shelf life | 12 months from date of production if stored properly |
| Storage conditions | Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +50°C. Mix well before using. |
| Density | 1.2 +/- 0.01 |
| Concreting guidance | SikaPlast RMC 50 should be added to the concrete mix during the mixing cycle at the same time as the water or the aggregates. Never add SikaPlast RMC 50 to the dry cement. No extension to normal mixing times is necessary. |
| Recommended dosage | The normal dosage range is 120 to 400ml per 100kg of cement. Higher dosages may be required when certain combinations of materials and conditions are present. In all cases we recommend trial mixes are carried out to determine the correct levels of admixture required to achieve the desired concrete |
| Dispensing | SikaPlast RMC 50 should be dispensed through a proprietary dispenser, such as is available from Sika Manufacturing Nigeria Limited. Details upon on request. |
| Compatibility | SikaPlast RMC 50 can be used with all types of Portland cement including sulphate resisting and modified cement (Type II). For use with special cements contact Sika Technical Services Department. SikaPlast RMC 50 should not be premixed with other admixtures. If other admixtures are to be used in concrete containing SikaPlast RMC 50, they must be dispensed separately. Consult Sika Technical Services Department for advice. |

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a

particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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