

PRODUCT DATA SHEET

Sikament® RB 1122

High-range, retarding superplasticiser for high performance concrete mixes

DESCRIPTION

Sikament® RB 1122 is composed of synthetic polymers specially designed to allow considerable reduction of mixing water while maintaining control on extend of set retardation.

Sikament® RB 1122 is preferred admixture for triple blend binder system based high performance concrete (HPC) mixes or mixes containing micro silica or metakaolin.

Sikament® RB 1122 is chloride free.

USES

- Concrete containing Silica fume/ Metakaolin
- Ready mixed concrete
- Congested/complex reinforced sections
- Pre-cast concrete production
- Long-distance transporting
- Pumped concrete
- Low water/binder ratio mixes
- Mixes requiring >20% water reductions

CHARACTERISTICS / ADVANTAGES

- Good dispersion even in mixes with high fines
- Reduced thermal peaks
- High workability for longer periods
- Lower pumping pressure
- Resistance to segregation even at high workability
- Extended setting with longer workability
- Reduced water content for a given workability
- Higher ultimate strengths
- Reduced permeability
- Improved durability
- Reduced shrinkage and creep
- Increased ease in finishing concrete

APPROVALS / STANDARDS

IS 9103, ASTM C494 Type G

PRODUCT INFORMATION

Packaging	Sikament® RB 1122 is supplied in 275kg drums or in bulk on request.
Appearance / Colour	Dark brown liquid
Shelf life	12 months from date of production in unopened, original sealed packaging.
Storage conditions	Sikament® RB 1122 must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely re-constitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.
Density	1.23 ± 0.02 at 25°C
pH-value	≥ 6

APPLICATION INFORMATION

Recommended Dosage

Optimum dosage of Sikament® RB 1122 should be determined with trial mixes. As a guide, a dosage range of 600ml to 1800ml per 100kg of cementitious material is recommended. This dosage range applies for most concrete mixtures using typical concrete ingredients. However, variations in job conditions and concrete materials, such as silica fume, may require dosages outside of the recommended range. In such cases, contact your local Sika representative.

For additional information on Sikament® RB 1122 admixture or on its use in developing concrete mixes with special performance characteristics, contact your local Sika representative.

Compatibility

Sikament® RB 1122 is compatible with most admixtures used in the production of quality concrete including normal, other mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set-control admixtures, corrosion inhibitors, and shrinkage reducers.

Sikament® RB 1122 is also compatible with slag and pozzolans such as fly ash, metakaolin and silica fume.

Dispensing

Sikament® RB 1122 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water.

The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of Sikament® RB 1122 to dry aggregate or cement is not recommended.

BASIS OF PRODUCT DATA

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

LEGAL NOTES

Sika India Pvt. Ltd.
620, Diamond Harbour Road
Commercial Complex II
Kolkata - 700 034
West Bengal, India

Contact:
Phone: +91 33 2447 2448
Fax: +91 33 2397 8688
info.india@in.sika.com
www.sika.in



SikamentRB1122-en-IN-(08-2025)-1-1.pdf

Product Data Sheet
Sikament® RB 1122
August 2025, Version 01.01
02130200000002034