



Plastiment® 180

High Performance Plasticiser

Technical Data Sheet

DESCRIPTION

Plastiment 180 is a purpose designed chemical combination of Modified Lignosulphonates.

Plastiment 180 allows the manufacture of economic high quality concrete without undesirable side effects.

Plastiment 180 is a ready to use liquid for producing a more uniformly cohesive quality concrete to meet the specifications and needs of Architects, Consulting Engineers and Contractors.

Plastiment 180 conforms to BS5070 Pt 1, 1982.

USES

- * Readymix concrete
- * Precast concrete
- * Pumped concrete
- * Lightweight concrete
- * Wet shotcrete
- * Semi-dry concrete

ADVANTAGES

- * Improved workability/reduces w/c ratio
- * Flexible high performance plasticiser
- * High resistance to segregation/reduces bleeding
- * Improved surface finish
- * Reduces shrinkage cracking potential
- * Higher initial and ultimate compressive strengths
- * Higher durability concrete
- * Very economical in use

Technical Data (typical)

Form:	Liquid
Colour:	Brown
Specific Gravity:	1.2 @ 20°C
Cement Content (Kg/m³):	345
Air Entrainment:	Slight controlled increase, less than 2% additional air is entrained
Chloride Content % w/w:	Nil (to BS5075)
Effect on Setting:	Slight increase in retardation
Compatibility:	Can be used with all types of Portland Cements and Sika Admixtures. It is recommended that admixtures are added to the concrete separately.
Freezing point °C:	-1°C

This product complies to EN 934-2 T2.

All above values are approximate.

METHOD OF USE

For more information on Sika visit www.barbourproductsearch.info

For maximum dispersion **Plastiment 180** should be added with the mixing water, on no account should it be added to the dry cement. Where concrete is being mixed by ready mixed trucks, **Plastiment 180** can be added at the batching plant but the trucks must rotate their drums until a uniform mix is achieved. To produce flowing concrete a well proportioned pump mix should be used.

PACKAGING

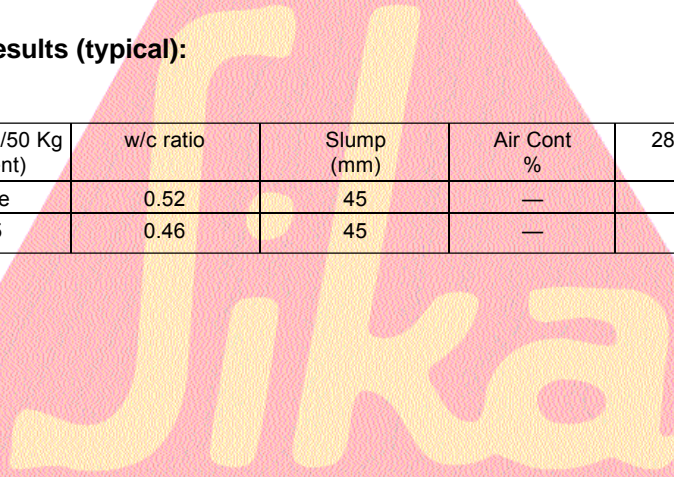
Plastiment 180 is supplied in 25 litre, 200 litre and 1000 litre containers. Bulk deliveries can be arranged.

STORAGE AND SHELF LIFE

The product should be stored away from extremes of temperature and should be protected from frost. Storage life 12 months minimum from delivery.

Compressive Strength Results (typical):

Admixture	Dose (M1/50 Kg Cement)	w/c ratio	Slump (mm)	Air Cont %	28 day Compressive Strength N/mm ²
Control	None	0.52	45	—	55.5
Plastiment 180	225	0.46	45	—	70.5



Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

SIKA LIMITED

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Plastocrete® NW

Integral Waterproofer for Concrete

Technical Data Sheet

DESCRIPTION

Plastocrete NW is a liquid waterproofer for use in all types of mortar and concrete to reduce permeability and absorption, and to impart water reducing properties. It is particularly suitable for use in in-situ concrete. It is a combination of plasticising, dispersing and controlled air entraining admixtures.

ADVANTAGES

- * Improved impermeability comes from the effectiveness of **Plastocrete NW** to lower the water content of the concrete whilst maintaining a sufficient workability to allow full compaction of the mix.
- * Most economical in use: it compares well against other systems and product types.
- * Greater degree of durability from the water reduction and slight air entrainment characteristics.
- * Better resistance to freeze thaw cycles
- * The amount of air entrainment is controlled by the formulation of the admixture and the ingredients used
- * Incorporation of **Plastocrete NW** acts as a useful pumping aid for the concrete mix.
- * Permanent effect as the concrete weathers and ages

BENEFITS

- * Concrete quality, colour intensity, strength and durability are all enhanced by the use of **Plastocrete NW**
- * Because it is in liquid form, **Plastocrete NW**, is simple to dispense into the concrete mix.

Technical Data (typical)

Form:	Liquid
Colour:	Brown
Specific gravity:	1.08
Dosage % by wt of cement:	0.50%
Chloride content % w/w:	Nil (ie less than 0.1% w/w)
Freezing point °C:	-5°C

All above values are approximate.



METHOD OF USE

Plastocrete NW should be dispensed with the mix water into the concrete mix. It permanently increases the water tightness of concrete, substantially improving its frost resistance and durability. It is suitable for use in concrete above and below ground level subject to surface water, water under pressure and atmospheric conditions. **Plastocrete NW** is approved for use with potable water. WFBS listing number 9001504.

PACKAGING

Plastocrete NW is supplied in 25 litre, 200 litre and in bulk.

STORAGE AND SHELF LIFE

Plastocrete NW should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Plastocrete NW** under these conditions is a minimum of 12 months.



Handling Precautions

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