



MERGUSS F.B.[®] (Fließ Beton)

Description

MERGUSS F. B.[®] is a Super Plasticizer Admixture for concrete that is composed from Naphthalene Sulfonate resin and other well-selected ingredients to performed High Strength Concrete, pumped ease and non-segregate concrete. MERGUSS F. B.[®] is non-volatile, non-combustible, non-toxic and it does not contains any chlorides, therefore it is safe to contact with metal. MERGUSS F. B.[®] meets the requirements of ASTM C-494 TYPE G; BS 5075 Part 3

Uses

MERGUSS F. B.[®] is a right solution for concreting problems such us :

- Concrete clogging during pumping process.
- Compacting problem due to heavy reinforcement.
- Thin structure and very wide slab concreting require water at minimum level to avoid creep.

Therefore MERGUSS F. B.[®] is very useful for :

- Concreting using concrete pump.
- Heavy reinforcement concreting.
- Mass concrete.
- Precast concrete element manufacturing.
- Prestressed concrete.
- Very High Strength Concrete.

Advantages

- Increase the slump value of fresh concrete drastically.
- Fresh concrete are easily to be pumped.
- Produce self levelling concrete.
- Shorter time in placing concrete.
- Increase concrete strength (especially in high dosage).
- Improve concrete impermeability.

Technical Data

Chemical base	: Naphthalene Sulfonate
Colour	: Light Brown
Specific gravity	: 1.17
pH Value	: 8 - 8.5
Self life	: 1 (one) year with a good storage condition.
Packaging	: 220 kg / iron drum
Storage	: Store in cool / shaded and dry place, avoid direct sunlight. Keep the container sealed before use. During winter it may freeze. Thawing & stirring before use will not lessen it's effectiveness.

Rate of Application

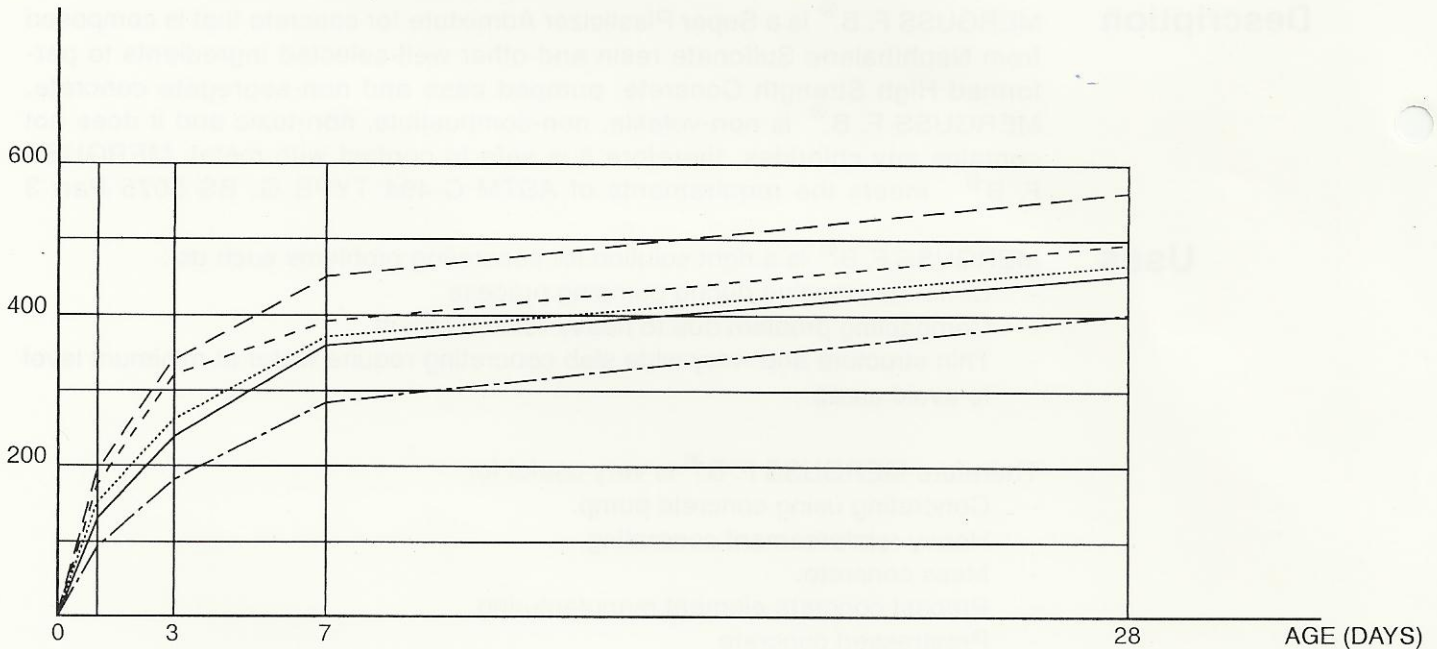
0.7% - 2.5% of cement weight.

Since the dosage depends upon the type and quality of cement, aggregates, W/C ratio, and ambient temperature, a trial must be carried out prior to use.

Instruction for use

Mix MERGUSS F.B.[®] with some part of the gauging water, then stir well. Place aggregate and cement into a turning mixer in the following order : rough aggregates, smooth aggregates, and then cement, stir evenly. Add some water until the mixture is well stirred, then pour in the required amount of MERGUSS F. B.[®] solution. If a firmer consistency is required, water should be reduced. At temperatures below 10° C, it is advisable to preheat the aggregate. Likewise, when concreting in hot weather, the aggregate should be prechilled with cooled water.

(Kg / cm 2) COMPRESSIVE STRENGTH



TYPE OF CONCRETE ADMIXTURE	DOSAGE % X PC	SLUMP (Cm)	W/C	UNIT CONTENT (KG/M3)			WATER REDUCE
				PC	SAND	COARSE AGGREGATE	
----- PLAIN	-	10 - 12	0.435	540	558	1,187	-
..... MERGUSS FB	1	10 - 12	0.340	540	558	1,187	21.81 %
--- MERGUSS FB	2.5	10 - 12	0.321	540	558	1,187	26.21 %
—— OTHER PRODUCT	1	10 - 12	0.354	540	558	1,187	18.56 %
----- OTHER PRODUCT	2.5	10 - 12	0.336	540	558	1,187	22.70 %



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