

India's Future

The Next Generation Technology
OF CONSTRUCTION
HARD & SHINE CHEMICALS



STRENGTH GAIN CHART OF RAPIDASH

ADMIXTURE DOSAGE 0.4% OF CEMENT (200grams for 50 Kgs of cement)

STRENGTH GAIN OF CONCRETE MADE USING **RAPIDASH** IN Mpa (or) N/mm²

GRADE OF CONCRETE	MIX DESIGN	2ND DAY	4TH DAY	7TH DAY	14TH DAY	28TH DAY
M5	1:5:10	4.5	7	8	9.5	10
M7.5	1:4:8	6	8	9.5	11	13
M10	1:3:6	7.5	10	12	14	15
M15	1:2:4	10	13	18	19.5	23
M20	1:1.5:3	15	18	25	28	32
M25	1:1:2	20	24	30	35	40
M30	1:0.75:1.5	25	28	35	42	45
M35	1:0.5:1	28	30	38	46	50
Strength gain of normal Concrete without admixture & with water curing as per IS.		16%	40%	65%	90%	99%

Note : * Above mentioned results are as per lab trails, results may vary +/- 5-10% depending on the aggregates, binder quality and working condition.
* Results taken from the cube test (150mmx150mm cube) average result of 9 cubes without curing.

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RAPIDASH

High Early Strength Superplasticizer And Accelerator.

RAPIDASH With **9**
ADVANTAGE

Clean moulds

Fast setting

Early shifting

Zero damages

High surface finish

Self curing

High early strength

More No. of bricks/blocks

Early dispatch



Description

RAPIDASH is a Polycarboxylic superplasticizer and accelerator admixture that is specially designed for producing superior high early strength Flyash precast applications. RAPIDASH contains no added chloride. It is formulated to comply with specifications for chemical admixtures for concrete: AS 1478 as a Type MWR.

One litre weigh approximately 1.310kg ± 0.02kg.

Advantages

Superior Early Strength Enhancement

RAPIDASH accelerates cement hydration at a very early stage. Together with the very efficient dispersion effect, RAPIDASH achieves very high early strength for the production of fly ash precast products.

High Workability

RAPIDASH is ideal for precast applications, where high early strength is desired, and where high workability will aid faster placement and improved mix consolidation. Ideally suited for Flyash bricks & blocks, AAC blocks, CLC blocks, ALC blocks & other Flyash based precast products.

Superior Surface Finish

RAPIDASH produces with superior surface finish, without stickiness, tearing or spotty set characteristics.

Superior Water Reduction

With up to 20-30% water reduction possible, RAPIDASH is highly effective in low water-cement concrete, producing high early strength concrete.

Packaging

RAPIDASH is available in 70kgs, 250 kgs & 1000 kgs bulk.

RAPIDASH contains no flammable ingredients. It will begin to freeze at approximately 0°C, but will return to full strength after thawing and thorough agitation.

In storage, and for proper dispensing, RAPIDASH should be maintained at temperatures above 0°C.

Dispersion

RAPIDASH is a superior dispersing admixture, having a marked capacity to disperse cement agglomerates normally found in a cement-water suspension. The capability of RAPIDASH exceeds that of normal water-reducing admixtures (Type WR) and High Range Water Reducers (Type HWR), resulting in lower dosages and better control.

Uses

RAPIDASH produces concrete with high early strength for precast structural elements, while at the same time achieving high workability for easy and fast placement and consolidation. It also allows concrete to be produced with very low water-cement ratios.

Optimize Precast Concrete Production

The accelerated set times of RAPIDASH eliminate the need for heat curing to achieve high early strength concrete. The earlier removal of forms leads to reduced cycle times, faster mould turnaround, reduced costs and increased productivity.

Addition Rates

Addition rates of RAPIDASH can vary with type of applications, but will normally range from 200 to 300 gms for 50kg of cementitious material. In most instances, the addition of 300 to 400 gms for 50kg of cementitious material will be sufficient. Should conditions require using more than recommended addition rates, please consult your local H&S representative.

Compatibility

RAPIDASH is compatible with all types of cementitious material, admixtures should be separately added to the concrete. Pre-testing of the concrete should be performed to optimize dosages and the addition sequence of these admixtures.

Health and Safety

Please refer to RAPIDASH Material Safety Data Sheet or consult H&S Chemicals Pvt Ltd.