

DS Products at Glance.... Concrete Admixtures



Sr. No.	Product Name	Description	Specification	Features / Uses	Typical Application	Technical Information	Dosage / Coverage	Packing
1	DS-Chemiplast	Water reducing plasticiser for concrete	ASTM C 494 – Type A IS 9103: 1999	<ul style="list-style-type: none"> To increase / extend workability To reduce water content To increase compressive strength To effect cement economies Improves the cohesiveness in concrete mix helping to reduce bleeding & segregation. Allows water reduction till 10% whilst maintaining workability, thereby increasing strength, durability and impermeability. Lower pumping pressure 	<ul style="list-style-type: none"> Low grades concrete Precast concrete In concrete brick & block manufacture In hot climates to extend workability Wherever reduced water content would be of benefit to reduce permeability. 	Colour : Brown Liquid Specific Gravity @30°C : 1.170 ±0.02 Chloride content : Nil pH : min. 6 Shelf life : 1 year	0.3 to 0.8 kg / 100 kg of cementitious binder (depending on site requirements)	250 kg drum / Bulk (9MT)
2	DS-Retainplast	Slump Retaining plasticiser for concrete	ASTM C 494 - Type B & D IS 9103: 1999	<ul style="list-style-type: none"> Enables controlled extension of initial set. Highly effective in high cement, low water content mixes where its use enables concrete to be more workable without loss in strength, density and durability. To reduce water content The retarding action allows continuous concrete pours to be made, thus reducing the number of construction joints needed. The strength gain of concrete containing DS-Retainplast is enhanced. 	<ul style="list-style-type: none"> Ready Mix Concrete Precast concrete In hot climates to extend workability & control setting time of concrete White cement concrete 	Colour : Pale Straw Liquid Specific Gravity @30°C : 1.160 ±0.02 Chloride content : Nil pH : min. 6 Shelf life : 1 year	0.1 to 0.5 kg / 100 kg of cementitious binder (depending on site requirements)	235 kg drum
3	DS-Retainplast 10	Water reducing & retarding plasticiser for concrete	ASTM C 494 - Type B & D IS 9103: 1999	<ul style="list-style-type: none"> Significantly increase or extend workability therefore easing placing. To reduce water content and increase compressive strength. To effect cement economies. Improves the cohesive property of concrete helping to reduce segregation and bleeding. Allows water reduction till 10% whilst maintaining workability, thereby increasing strength, durability and impermeability. 	<ul style="list-style-type: none"> Ready Mix Concrete for lower grades Precast concrete In hot climates to extend workability. Wherever reduced water content would be of benefit to reduce permeability. 	Colour : Brown Liquid Specific Gravity @30°C : 1.180 ±0.02 Chloride content : Nil pH : min. 6 Shelf life : 1 year	0.4 to 0.9 kg / 100 kg of cementitious binder (depending on site requirements)	245 kg drum / Bulk (9MT)

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4	DS-Retainplast 30	Water reducing & retarding plasticiser for concrete	ASTM C 494 - Type B & D IS 9103: 1999	<ul style="list-style-type: none"> Significantly increase or extend workability therefore easing placing. To reduce water content and increase compressive strength. To effect cement economies. Improves the cohesive property of concrete helping to reduce segregation and bleeding. Allows water reduction till 10% whilst maintaining workability, thereby increasing strength, durability and impermeability. Lower pumping pressure Moderate to extended retardation depends on the dosage. Helps to eliminate cold joints. 	<ul style="list-style-type: none"> Ready Mix Concrete for lower grades Precast concrete In hot climates to extend workability. Wherever reduced water content would be of benefit to reduce permeability. 	Colour : Brown Liquid Specific Gravity @30°C : 1.200 ±0.02 Chloride content : Nil pH : min. 6 Shelf life : 1 year	0.4 to 0.8 kg / 100 kg of cementitious binder (depending on site requirements)	245 kg drum / Bulk (9MT)
5	DS-Setplast	Accelerating Plasticiser to reduces Setting time of concrete	ASTM C 494 - Type C IS 9103: 1999	<ul style="list-style-type: none"> Reduces setting time depending on the dosage and ambient temperature. Helps to achieve high early strength, hence reduction in de-shuttering time. Hence increases the construction work speed. Helps in reducing cement content for a required strength. Reduces construction cost- no delay due to cold weather, use of OPC instead of Rapid Hardening Cement. 	<ul style="list-style-type: none"> Low temperature concrete Precast and Reinforced Concrete Concrete block and mortar Concrete Pipes, Brick laying mortar mixes 	Colour : Colourless Liquid Specific Gravity @30°C : 1.260 ±0.02 Chloride content : Nil Shelf life : 1 year	03 to 38 kg/m ³ , depending upon acceleration desired.	245 kg drum
6	DS-Superplast	SNF based High Range Water Reducing Superplasticiser for Precast concrete	ASTM C 494 - Type F IS 9103: 1999	<ul style="list-style-type: none"> Allows water reduction more than 20% whilst maintaining high flowability at lower water cement ratio, thereby increasing high early & ultimate strength. With congested reinforcements. Increases durability & impermeability. Concrete with DS-Superplast shows higher strength than concrete without admixture having the same workability at early and later ages. 	<ul style="list-style-type: none"> High Early, High Strength Concrete Precast / Pre-stressed Concrete Ready Mix Concrete for Higher grades Pumped concrete 	Colour : Brown Liquid Specific Gravity @30°C : 1.205 ±0.02 Chloride content : Nil pH : min. 6 Base : Sulphonated Naphthalene Formaldehyde. Shelf life : 1 year	0.5 to 1.5 kg / 100 kg of cementitious binder (depending on site requirements)	250 kg drum / Bulk (9MT)

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7	DS-Superplast RD	High Range Water Reducing Superplasticiser for Re-dosing	ASTM C 494 - Type F IS 9103: 1999	<ul style="list-style-type: none"> • Ideal admixture for re-dosing to extend workability without delay setting. • Maintaining high flowability at lower water cement ratio, thereby increasing high early & ultimate strength. • With congested reinforcements. • Increases durability & impermeability. • Lower pumping pressure. 	<ul style="list-style-type: none"> • Re-dosing for all general grades concrete • Ready Mix Concrete to extend workability without strength loss and without delay setting. • Pumped concrete 	Colour : Brown Liquid Specific Gravity @30°C : 1.160 ±0.02 Chloride content : Nil pH : min. 6 Base : Sulphonated Naphthalene Formaldehyde. Shelf life : 1 year	0.2 to 1.5 kg / 100 kg of cementitious binder (depending on site requirements)	235 kg drum / Bulk (9MT)
8	DS-Superplast 35	High Range Water Reducing and Retarding Superplasticiser for Lower Grades Concrete	ASTM C 494 - Type G IS 9103: 1999	<ul style="list-style-type: none"> • High workability for longer period. • Allows water reduction more than 20%. • With congested reinforcements. • Increases durability & impermeability. • Lower pumping pressure. • Higher ultimate strength. 	<ul style="list-style-type: none"> • Ready mix concrete • Piling concrete • Precast concrete • Casting in hot climates • Pumped concrete 	Colour : Brown Liquid Specific Gravity @30°C : 1.230 ±0.02 Chloride content : Nil pH : min. 6 Base : Sulphonated Naphthalene Formaldehyde. Shelf life : 1 year	0.5 to 1.2 kg / 100 kg of cementitious binder (depending on site requirements)	250 kg drum / Bulk (9MT)
9	DS-Superplast 45	High Range Water Reducing and Retarding Superplasticiser for Higher Grades Concrete	ASTM C 494 - Type G IS 9103: 1999	<ul style="list-style-type: none"> • High workability for longer period. • Allows water reduction more than 20%. • With congested reinforcements. • Increases durability & impermeability. • Lower pumping pressure. • Higher ultimate strength. 	<ul style="list-style-type: none"> • Ready mix concrete • Piling concrete • Precast concrete • Casting in hot climates • Pumped concrete 	Colour : Brown Liquid Specific Gravity @30°C : 1.255 ±0.02 Chloride content : Nil pH : min. 6 Base : Sulphonated Naphthalene Formaldehyde. Shelf life : 1 year	0.5 to 1.2 kg / 100 kg of cementitious binder (depending on site requirements)	250 kg drum / Bulk (9MT)

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10	DS-Superplast (P)	High Range Water Reducing Powder Superplasticiser	ASTM C 494 - Type F IS 9103: 1999	<ul style="list-style-type: none"> Allows water reduction more than 20% whilst maintaining high flowability at lower water cement ratio, thereby increasing high early & ultimate strength. With congested reinforcements. Increases durability & impermeability. Concrete with DS-Superplast (P) shows higher strength than concrete without admixture having the same workability at early and later ages. 	<ul style="list-style-type: none"> High Early, High Strength Concrete / Grouts Useful for cementitious powder product to get flowability 	Colour : Brown powder Bulk Density (gm/lit): 450 ± 50 Chloride content : Nil pH : min. 6 Base : Sulphonated Naphthalene Formaldehyde. Shelf life : 6 months	0.2 to 0.75 kg / 100 kg of cementitious binder (depending on requirements)	25 kg bag
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11	DS-Hyperplast	Superplasticiser for High Performance concrete based on Poly-carboxylic Ether	ASTM C 494 - Type F IS 9103: 1999	<ul style="list-style-type: none"> Excellent dispersion resulting in High workability Increases early & ultimate strengths Increases Flexural strength & E-modulus Can be placed and compacted in congested reinforcements Reduced labour requirements. Increases durability & impermeability Improved surface finish Ideal for use in Self-compacting Concrete along with DS-VMA, Viscosity Modifying Admixture. 	<ul style="list-style-type: none"> Precast / Pre-stressed Concrete High Strength Concrete High Performance Concrete Self Compacting Concrete Pumped concrete 	Colour : Brown Liquid Specific Gravity @30°C : 1.080 ±0.02 Chloride content : Nil pH : min. 6 Base : modified Poly-carboxylic Ether. Shelf life : 1 year	0.5 to 1.5 kg / 100 kg of cementitious binder (depending on site requirements)	230 kg drum / Bulk (9MT)
12	DS-Hyperplast 2030	Lower Range PCE based superplasticiser with retention for concrete grades up to M30	ASTM C 494 - Type G IS 9103: 1999	<ul style="list-style-type: none"> Excellent dispersion resulting in High workability and superb slump retention. Increases early & ultimate strengths Increases Flexural strength & E-modulus Can be placed and compacted in congested reinforcements without vibration. Reduced labour requirements. Increases durability & impermeability Improved surface finish 	<ul style="list-style-type: none"> Ready Mix Concrete for Lower grades with more retention time. Pumped concrete 	Colour : Brown Liquid Specific Gravity @30°C : 1.080 ±0.02 Chloride content : Nil pH : min. 6 Base : modified Poly-carboxylic Ether. Shelf life : 1 year	0.5 to 1.2 kg / 100 kg of cementitious binder (depending on site requirements)	230 kg drum / Bulk (9MT)

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13	DS-Hyperplast 3040	Mid Range PCE based superplasticiser with retention for concrete grades up to M45	ASTM C 494 - Type G IS 9103: 1999	<ul style="list-style-type: none"> • Excellent dispersion resulting in High workability and superb slump retention. • Increases early & ultimate strengths • Increases Flexural strength & E-modulus • Can be placed and compacted in congested reinforcements without vibration. • Reduced labour requirements. • Increases durability & impermeability • Improved surface finish • Ideal for use in Self-compacting Concrete along with DS-VMA, Viscosity Modifying Admixture. 	<ul style="list-style-type: none"> • Ready Mix Concrete for Higher grades with more retention time. • Self Compacting Concrete • High Strength Concrete • High Performance Concrete • Precast / Pre-stressed Concrete • Pumped concrete 	Colour : Light Brown Liquid Specific Gravity @30°C : 1.100 ±0.01 Chloride content : Nil pH : min. 6 Base : modified Poly-carboxylic Ether. Shelf life : 1 year	0.5 to 1.2 kg / 100 kg of cementitious binder (depending on site requirements)	230 kg drum / Bulk (9MT)
14	DS-Hyperplast 4050 / 4050 (SCC)	High Range PCE based superplasticiser with retention for concrete grades more than M50 & Self Compacting Concrete	ASTM C 494 - Type G IS 9103: 1999	<ul style="list-style-type: none"> • Excellent dispersion resulting in High workability and superb slump retention. • Increases early & ultimate strengths • Increases Flexural strength & E-modulus • Can be placed and compacted in congested reinforcements without vibration. • Reduced labour requirements. • Increases durability & impermeability • Improved surface finish • Ideal for use in Self-compacting Concrete along with DS-Hyperplast 4050 (SCC). 	<ul style="list-style-type: none"> • Ready Mix Concrete for Higher grades with more retention time. • Self Compacting Concrete • High Strength Concrete • High Performance Concrete • Precast / Pre-stressed Concrete • Pumped concrete 	Colour : Brown Liquid Specific Gravity @30°C : 1.110 ±0.01 Chloride content : Nil pH : min. 6 Base : modified Poly-carboxylic Ether. Shelf life : 1 year	0.5 to 1.2 kg / 100 kg of cementitious binder (depending on site requirements)	230 kg drum / Bulk (9MT)
15	DS-Hyperplast (P)	Powder Superplasticiser for High Performance concrete / Grouts based on Poly-carboxylic Ether	ASTM C 494 - Type F IS 9103: 1999	<ul style="list-style-type: none"> • Excellent dispersion resulting in High workability • Increases early & ultimate strengths • Increases Flexural strength & E-modulus • Can be placed and compacted in congested reinforcements • Reduced labour requirements. • Increases durability & impermeability • Improved surface finish • Ideal for use in Self-compacting Concrete along with DS-VMA, Viscosity Modifying Admixture. 	<ul style="list-style-type: none"> • High Early, High Strength Concrete / Grouts • Useful for cementitious powder product to get flowability 	Colour : Light Brown Liquid Bulk Density (gm/lit): 450 ± 50 Chloride content : Nil pH : min. 6 Base : modified Poly-carboxylic Ether. Shelf life : 4 months	0.2 to 0.5 kg / 100 kg of cementitious binder (depending on site requirements)	25 kg bag
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Sr. No.	Product Name	Description	Specification	Features / Uses	Typical Application	Technical Information	Dosage / Coverage	Packing
16	DS-AEA	Air Entraining Admixture for concrete	ASTM C 260 - 86	<ul style="list-style-type: none"> Increases freeze / thaw resistance. Reduces segregation and bleeding. Reduces permeability- increased water tightness. Greatly improved stability of air entrainment. Improved plasticity and workability. Ready to use solution is at optimum strength for accurate dispensing. Improved surface finish 	Entraining a controlled air content in wide range of concrete types: <ul style="list-style-type: none"> Pavement Quality Concrete Normal mix concrete Low Slump Concrete Concrete containing high carbon content fly ash High fines concrete Concrete using high-alkali cement 	Colour : Light Brown Liquid Specific Gravity @30°C : 1.020 ±0.02 Chloride content : Nil pH : min. 6 Shelf life : 1 year	0.01 to 0.10 kg / 100 kg of cementitious binder (depending on site requirements)	210 kg drum / Bulk (9MT)
17	DS-VMA	Viscosity Modifying Admixture (VMA) for Self Compacting Concrete.	EFNARC – Guidelines for VMA for concrete -September 2006	<ul style="list-style-type: none"> Increased viscosity and thixotropic properties Controlling bleeding and segregation for fluid mix Improved stability during transportation & placing Enhanced pumping & finishing Reduced sagging- dimensional stability Enables flexibility in mixture proportioning 	<ul style="list-style-type: none"> Self Compacting Concrete Fluid Precast / Pre-stressed Concrete Concrete with gap-graded aggregates Concrete containing manufactured sand Lean concrete 	Colour : Brown liquid Specific Gravity @30°C : 1.000 ±0.01 Chloride content : <0.2% pH : min. 6 Shelf life : 1 year	0.05 to 0.5 kg / 100 kg of cementitious material (depending on site requirements)	210 kg drum
18	DS-MS 920D	Densified Microsilica	ASTM C 1240 – 2001	<ul style="list-style-type: none"> Increases Strength Increases Flexural strength & E-modulus Substantially improved resistance to chemical and mechanical attack Prevents bleeding and segregation Increases durability & impermeability Reduced dosages of activators / accelerators 	<ul style="list-style-type: none"> High Strength / High Performance Concrete Precast / Pre-stressed Concrete All types of wet- mixed sprayed concrete Underwater concrete Concrete with low cement Tunnel grouting 	Colour : Grey powder Density : 0.55 – 0.70 Chloride content : <0.1% Shelf life : 1 year	05 to 15% of weight of cementitious material (depending on site requirements)	25 kg bag
19	DS-LIW	Liquid Integral Waterproofing admixture for	ASTM C 494- Type A & D	<ul style="list-style-type: none"> Increases cohesiveness in concrete / plaster Increases durability, by increase in impermeability Does not affect the setting time and strength 	For waterproofing of concrete & sand-cement mortar used in basements,	Colour : Brown Liquid Specific Gravity @30°C : 1.180 ±0.02	300 ml / 100 kg of cement	225 kg drum / 25 kg can

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		concrete and plaster		<ul style="list-style-type: none"> • Ready to use liquid, hence dispersion is better • Reduces shrinkage cracks in plaster & concrete • Economical in application 	roof slabs, screeds, water retaining structures, bathrooms & balconies, etc.	Chloride content : Nil pH : min. 6 Shelf life : 1 year		
20	DS-Corroguard	Corrosion Inhibiting admixture for RCC	ASTM C 494-Type C	<ul style="list-style-type: none"> • Corrosion Inhibitor that provides basic corrosion protection for steel reinforced concrete structures • Provides effective corrosion protection against chlorides in concrete 	All types of RCC structures like marine structures, parking garages, bridge decks, slabs, floors, etc.	Colour : Colourless Liq. Specific Gravity @30°C : 1.260 ±0.02 Chloride content : Nil Shelf life : 1 year	12 to 38 kg/m ³ , depending upon site requirement	245 kg drum
21	DS-MRA OB	Mineral Oil based Mould Release Agent	Water Research Council approved for use with potable water	<ul style="list-style-type: none"> • Suitable for all types of formwork / shuttering • Non-staining • Reduces imperfections on concrete surfaces • Economical & increases life of formworks 	On all types of mould or formwork like wood, steel, etc.	Colour : Amber Liquid Specific Gravity @30°C : 0.840 ±0.01 Shelf life : 1 year	Coverage is 30 -70 m ² /Ltr, depending on formwork.	20 & 210 Ltr drums
22	DS-Bonding Aid	Acrylic based bonding aid	-	<ul style="list-style-type: none"> • As a bonding aid between old and new concrete / mortar. • Water resistant plasters or renders • Useful as additives for making repair mortars / concretes • Useful as a primer for repair mortars both for vertical and overhead applications. 	As a bonding aid between old and new concrete / mortar. Useful as a primer for repair mortars both for vertical and overhead applications.	Colour: White, milky liquid Specific Gravity @30°C : 1.050 ±0.050 Solid Content: 47 ±0.5% pH: 9 ± 1	4-7m ² /liter depending on the substrate absorption.	5, 50 & 220 kg drums
23	DS-Cure WB	Wax base Curing Aid	ASTM C 309 Type 2 Class A	<ul style="list-style-type: none"> • Eliminates the need of water with single application • Promotes a harder dust free surface • Cured film is clear and water repellent • Reduces drying shrinkage • High curing efficiency • Reduced labour costs • Water based • Solar reflective 	High curing efficiency for the concrete / plaster for road, buildings, etc.	Colour: White liquid Specific Gravity @30°C: 1.140 ±0.010 Finish film appearance: White Solar reflective, tack free, water repellent	5 m ² /Ltr	50, 230 kg drums
24	DS-Cure RB	Aluminised, resin base Curing Aid	BS 7542 - 1992	<ul style="list-style-type: none"> • Eliminates the need of water with single application • Promotes a harder dust free surface • Cured film is aluminised and water repellent • Reduces drying shrinkage • High curing efficiency • Reduced labour costs 	High curing efficiency for the concrete rigid pavements	Colour: Aluminized liquid Specific Gravity @30°C: 0.88 – 0.92 Finish film appearance: Aluminised, tack free, water repellent	5.5 to 7 m ² /Ltr	50, 200 Ltr drums

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25	DS-Cure Build	Acrylic resin base Curing Aid	BS 7542 - 1992	<ul style="list-style-type: none"> Eliminates the need of water with single application Promotes a harder dust free surface Cured film is aluminised and water repellent Reduces drying shrinkage High curing efficiency Reduced labour costs Water based 	High curing efficiency for the buildings, concrete structures where no need to scrap the cured film.	Colour: Liquid Specific Gravity @30°C: 1.000- 1.050 Finish film appearance: Clear, tack free, water repellent	3.5 - 5 m ² /Ltr	50, 230 kg drums
26	DS-JointSeal PS DS-Joint Seal PS (Primer)	Polysulphide Sealant for Road pavement joints	BS 4254: 1983 IS 12118 (PT 1 & 2) – 1987 ASTM C 920 – Type M, Grade NS, Class 25	<ul style="list-style-type: none"> It is available in 2 grades, Gun grade for general application and pourable grade for joints in horizontal surfaces. It us use in high rise buildings and other applications where access for subsequent maintenance will be difficult and the risk of early movement failure must be minimized. 	It is also suitable along with Primer for sealing joints in subways, basements, retaining walls, reservoirs and brickwork joints.	Two-part compound: Base : White Paste Curing Aid: Black paste Colour (Mixed material): Grey Density: 1.60 –1.65 kg/ltr Pot life: 2 hours at 25°C	Coverage will vary depends on joint width and depth.	4 / 32 kg Two component pack.

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