CEMENT MORTAR ADDITIVES
Dry Shrinkage Reducing Agent

SYUDOX™ SP-01S, DF-40

SYUDOX™ SP-01S, DF-40 are all powder type dry shrinkage reducing agents(SRA) developed for premix products, such as polymer cement mortar.

Features

1. Excellent effect of dry shrinkage reducing
2. Easy to mix with other powder
3. Combination with other agents is possible

Appearance

Table 1. SYUDOX™ SP-01S, DF-40 appearance

Item	SYUDOX™ SP-01S	SYUDOX™ DF-40
Appearance	 White Powder	 White Flake

Dosage

Depending on the application, the dosage of **SYUDOX™ SP-01S, DF-40** varies from 1.0 to 4.0wt% of the cementitious material.

Packaging

SYUDOX™SP-01S : Paper bag （15kg）
SYUDOX™DF-40 : Paper bag （20kg）

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Performance

Table 2. Mixing proportion of the mortar　※Testing temperature：21±1℃

W/P[%]	S/P	Redispersible polymer powder dosage[P×%]	SRA dosage[P×%]
50	2.0	5.0	1.0～4.0

・W：Water　・P（Cement ： Expansive additives = 95 ： 5）　・S：Fine aggregate（Sillica sand）
・Cement（Portland cement）　・Redispaersible polymer powder（Vinylacetate/VeoVa/Acrylate type）

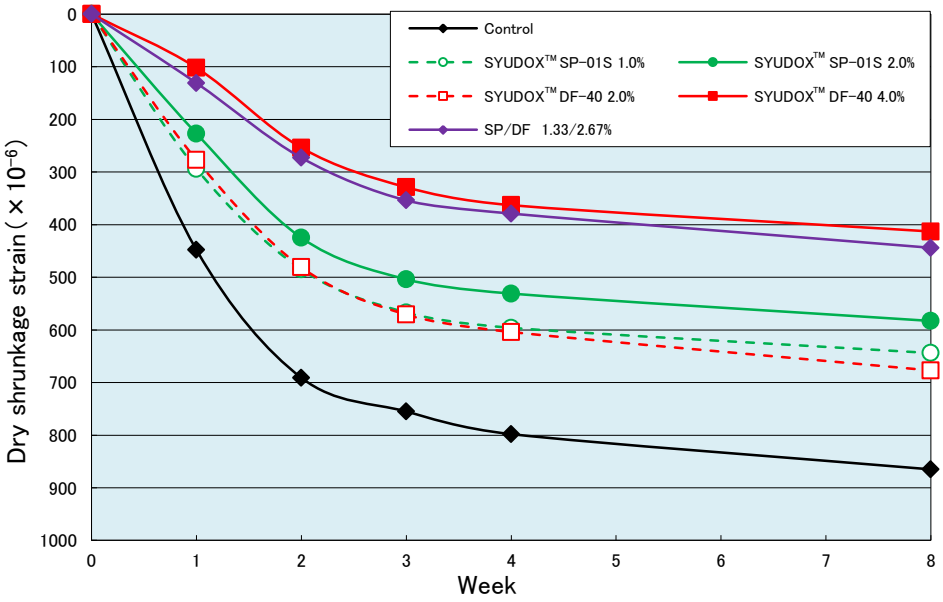


Figure 1. Result of dry skin shrinkage strain test

Table 3. Mortar property ①

Item	SRA dosage [P×%]	Defoaming agent dosage [P×%]	Unit weight [g/L]	Mortar flow [mm]
Control	–	0.5	2,020	171
SYUDOX™ SP-01S	1.0	0.5	2,020	170
	2.0	0.5	2,010	167
SYUDOX™ DF-40	2.0	0.5	2,010	172
	4.0	0.5	1,990	164
SP-01S/DF-40	1.33/2.67	0.5	2,000	166

Table 4. Mortar property ②

Item	SRA dosage [P×%]	Defoaming agent dosage [P×%]	Dry shrinkage strain[×10⁻⁶]					Strength [N/mm²]			
								Flexural		Compressive	
			1week	2week	3week	4week	8week	7 days	28 days	7 days	28 days
Control	–	0.5	450	690	760	800	870	5.7	9.2	38.9	49.3
SYUDOX™ SP-01S	1.0	0.5	290	490	570	600	640	6.1	8.1	35.0	44.3
	2.0	0.5	230	430	500	530	580	6.1	7.5	34.8	43.4
SYUDOX™ DF-40	2.0	0.5	280	480	570	600	680	5.9	7.8	33.3	42.0
	4.0	0.5	100	250	330	360	410	5.4	7.6	28.6	36.1
SP-01S/DF-40	1.33/2.67	0.5	130	270	350	380	440	5.4	8.2	30.1	39.9

※SYUDOX is a trademark of NOF CORPORATION.

Other information

This catalogue is made based on our best investigation, but, about data and the evaluation result of mention, is not necessarily a thing to guarantee. Because there is unknown hazardousness to all chemical substances, scrupulous attention is necessary for the handling. On the responsibility of the user members, we hope that safe terms of use are set. In addition, please use safety measures suitable for a use when you do the special handling. For more detail, refer to Safety Data Sheet (SDS).

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