

Powder Waterproofing agent

SYUDOX® PRF Series

PR-30RS

SYUDOX® PRF Series and **PR-30RS** are the powder type waterproofing agents for the addition in construction site or premixed products.

Features

1. **Excellent effect of waterproofing.**
2. **Having little impact on the workability.**
3. **Easy to mix with other powder.**

Properties

Table 18. SYUDOX® Series appearance

Item	SYUDOX® PRF-C180	SYUDOX® PRF-A180	SYUDOX® PR-30RS
Appearance	White powder	White powder	White powder

Dosage

Depending on the application, the dosage of **SYUDOX® PRF Series**, and **PR-30RS** varies from 1.0 to 3.0wt% of the cementitious material.

Performance

Table 19. Mixture proportion of the mortar

W/C [%]	S/C	Redispersible polymer powder dosage [C×%]	Waterproofing agent dosage [C × %]
50.0	2.0	5.0	1.0~2.0

W: Water

C : Ordinary portland cement

S : Fine aggregate (Silica sand)

Redispersible polymer powder: acryl type

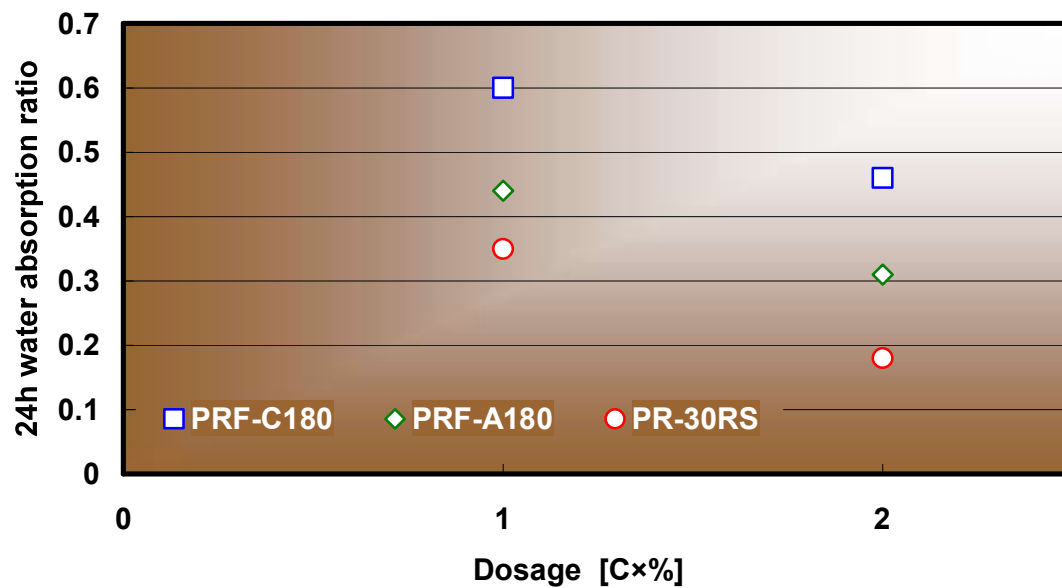


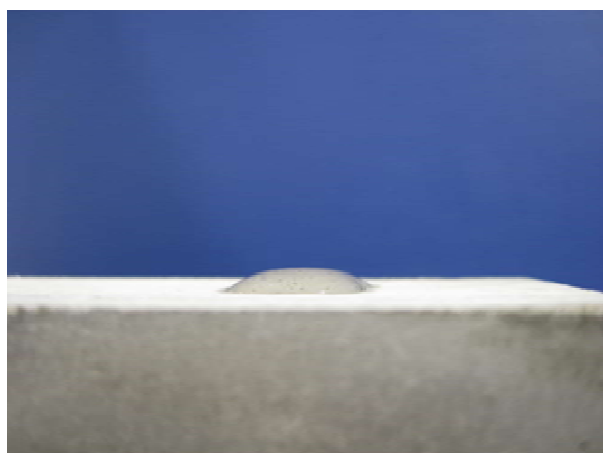
Figure 14. Relationship between waterproofing agents dosage and 24h water absorption ratio.

Table 20. Influence of waterproofing agent to mortar property (at 22±2°C)

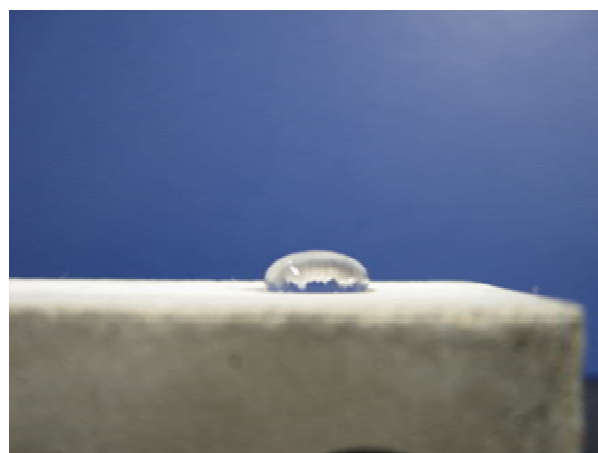
Waterproofing agent	Dosage [C×%]	Unit weight [g/L]	Mortar flow [mm]	Strength [N/mm ²]	
				Flexural	Compressive
				28days	28days
Control①* ¹⁾	—	2,070	167	9.6	34.8
Control②* ²⁾	—	2,070	168	10.2	39.1
SYUDOX®	1.0	1,970	165	—	—
PRF-C180	2.0	1,920	162	8.9	28.7
SYUDOX®	1.0	2,040	164	—	—
PRF-A180	2.0	2,030	162	9.9	28.8
SYUDOX®	1.0	2,000	166	—	—
PR-30RS	2.0	1,950	162	7.8	29.1

* 1) Control① : No redispersible polymer powder

* 2) Control② : Only redispersible polymer powder



Control



SYUDOX®PR-30RS

Figure 15. Control mortar and the mortar that has been waterproofed with SYUDOX® PR-30RS

Packaging

10 kgs net in a paper bag.

Cautions on handling

For more detail, refer to Safety Data Sheet (SDS).

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.

Please refer to our sales representative for other any questions.

※ SYUDOX is a registered trademark of NOF CORPORATION in Japan.



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