

Waterproofing Material of Concrete Body

CS-21TM

The CS-21 waterproofing is an ideal method making concrete body itself waterproof.



CS-21 waterproofing of concrete body system is the total construction supporting method starting from design phase up to maintenance management after work completion.



Important Factors

7 Important Factors to Secure the Quality of Waterproofing of Concrete Body

- Material
 - ① Sufficient Solid Amount
 - ② Re-Reactivity
 - ③ Reactivity to Neutralized Concrete
 - ④ Filling Performance for Fine Crack
- Concrete Body
 - ⑤ Adaptability of Body Concrete
- Work
 - ⑥ Considerable Experience and Results
 - ⑦ Work System by Engineers

Since the performance of waterproofing of concrete body largely differs depending on structure to be applied, concrete quality, material to be used and construction method, it is required to confirm prerequisite conditions.

CS-21, Waterproofing Material of Concrete Body

CS-21 is surface densifying material to penetrate in hardened concrete which generates stable C-S-H crystal with reaction such as un-hydrated cement and calcium component and filling fine pores and cracks. CS-21 improved the waterproofing quality by containing hydration activator.



Packing Style: 5Kg Plastic CAN

Product Overview

- Aspects: Colorless and Transparent Solution
- Major Component: Sodium Silicate
- Concentration: 1.24 ~ 1.28g/cm³
- pH Value: 11.3 ~ 12.3
- Classification by Japan Society of Civil Engineers: Reactive Silicate-Based Surface Penetrant

Registration Information

- NETIS Registration Number: CB-020055-V
(Design Comparison Target
Technology/March 7, 2013 ~)

Implementing Test Standard

- **Architectural Institute of Japan**
JASS 8 T-301:
Quality and Test Method of Siliceous Coating
> (b) Quality Standard for Permeability Coefficient
- **Japan Society of Civil Engineers**
JSCE-K 572:
Test Method for Silicate-Based Surface Impregnation (Draft)
- **Japan Society of Civil Engineers**
JSCE-K 571:
Test Method for Surface Penetrant
* Please contact us if you need CS-21 Test Result Report for those standards.

Housing Warranty Insurance

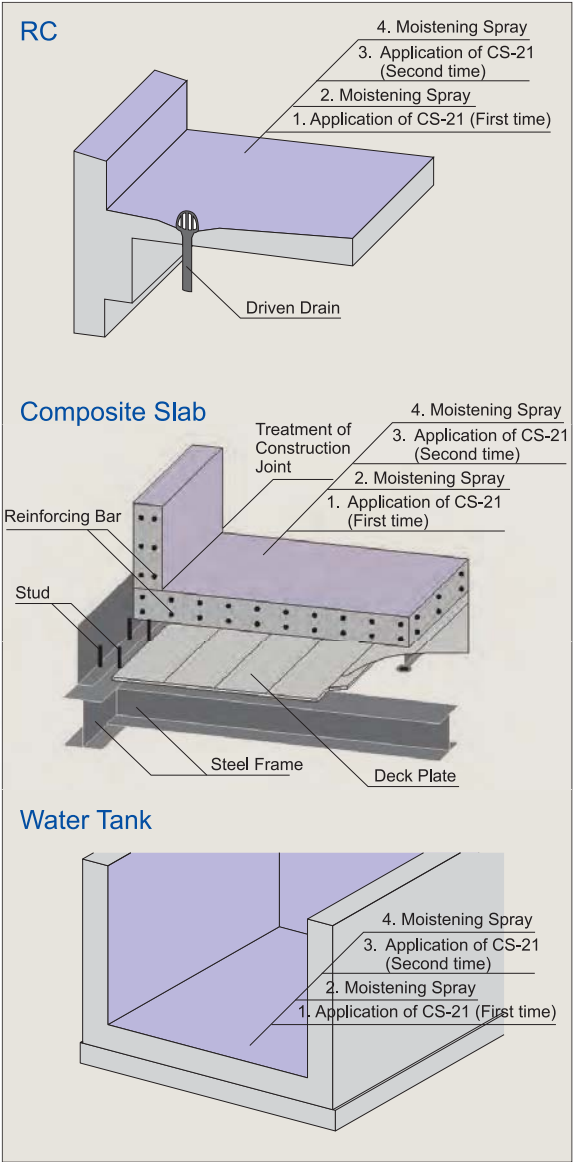
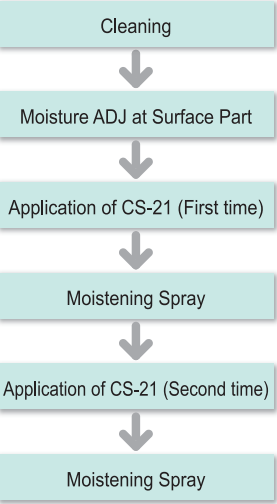
- Adaptable Housing Warranty Insurers by Confirmation Sheet Related to Article 3 Design Standard
 - Residential Warranty Corporation Anshin
 - Organization for Housing Warranty Ltd.
(Former Name: Organization for Housing Warranty)
 - Japan Inspection Organization (JIO)
 - House G-men Co., Ltd.
 - HOUSEPLUS CORPORATION, Inc.

Experience of Use

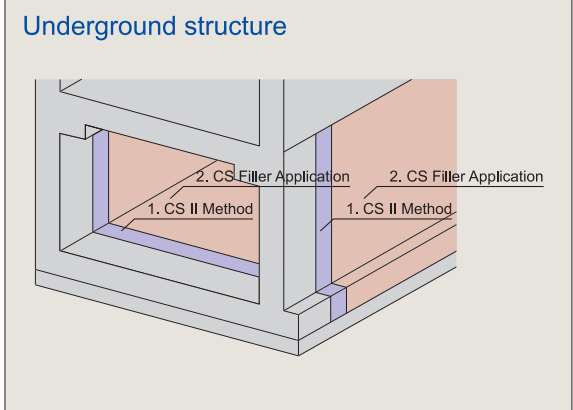
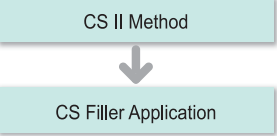
- CS-21 Waterproofing Construction Achievement:
570 cases/about 1 million m²
- CS-21 and other Construction Achievement:
333 cases of surface protection, about 298 Km²
178 cases of modification/repair, about 33Km²
210 cases of crack repair/water leak repair, about 43Km²
63 cases of treatment of construction joint/plastic cone part
Total: 1354 cases (As of September 2013)

Standard Working Diagram

CS-21 Waterproofing of Concrete Body, CS II Method



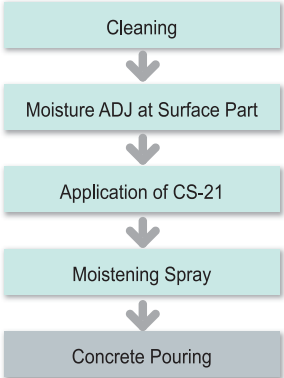
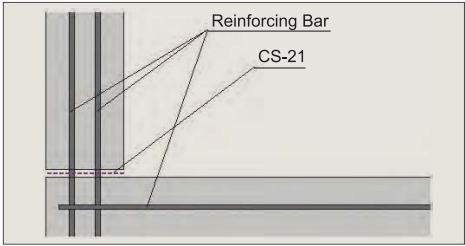
CS-21 Waterproofing of Concrete Body, CS II Method + CS Filler Application Method



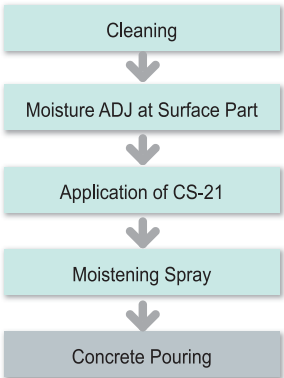
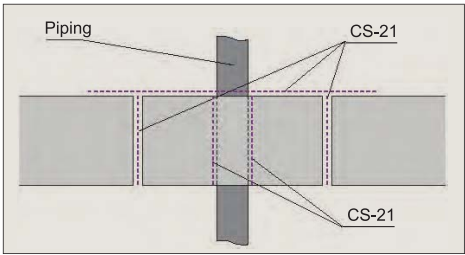
By surface covering on CS II method working location with polymer cement mortal CS filler, CS-21 suppresses water diffusion to outside and curing period is able to be shortened. In addition, there is the supplementary effect of calcium component, etc., by which the performance of CS-21 is maximized.

* Refer to the material [Waterproofing of Concrete Body] for detailed information on this brochure.

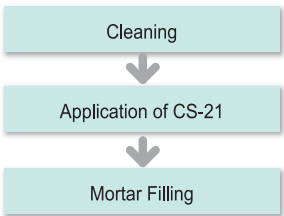
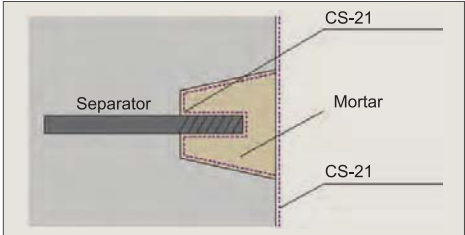
Waterproof Treatment of CS-21 Construction Joint Part



Waterproof Treatment of CS-21 Piping Part



Waterproof Treatment of CS-21 Plastic Cone Part





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