

BONNFLOON WATERBASE AC Coating system

5 main features of BONNFLOON WATERBASE AC Coating system

- 1 Outstanding weatherability**
Outstanding weatherability of fluoropolymer-resin material presents a coating system that remains maintenance free for 15 to 20 years.
- 2 Excellent water repellency**
Undercoat is a water repellent (a special water absorption-resisting material for concrete) which prevents water from entering the coating system.
- 3 Natural finish**
The product maintains the natural finish color of concrete.
- 4 Crack protection**
The water absorption-resisting material penetrates the concrete which is then covered by fluoropolymer-resin paint coat. This prevents the concrete deterioration near hair crack.
- 5 Outstanding resistance against neutralization**
Neutralization is the major enemy to concrete. The product prevents neutralization to a high level.

BONNFLOON Waterbase AC Coating System- Fluoropolymer-resin Concrete Protection Coating

BONNFLOON Waterbase AC Coating system is the world's first concrete protective coating for civil engineering and construction application. BONNFLOON Waterbase AC Coating system, composed of LUMIFLON and other materials such as water repellent (A water absorption-resisting material for concrete), shows an outstanding performance in terms of durability and resistance against corrosion.

Unlike conventional fluoropolymer-resin paints, the new BONNFLOON paint hardens under normal temperature. This drastically expands the scope of use of fluoropolymer-resin materials themselves as they allow on-site application of corrosion-resistant coating on bridges and large concrete structures where the use of conventional fluoropolymer-resin paints are prohibited.

Job Results



Renovo Research & Development Center
(Beijing, China)



The National Art Center (Tokyo, Japan)

Substrate Preparation Materials

There is no color difference between repaired parts and other parts when substrate preparation materials are used.



Before Renovation



After Application of Waterbase AC system

Performance of BONNFLOON WATERBASE AC Coating system

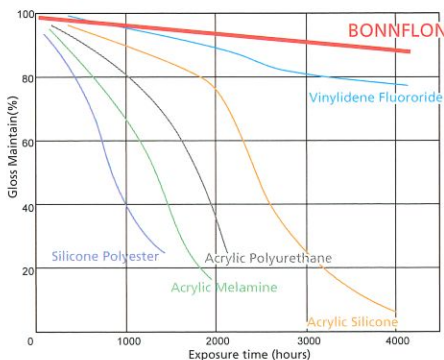


Fig. Weatherability Test

Sunshine Weather-O-Meter
Humidity: 80% RH
Water spray: 12 min/hour

Test items	Methods of testing	BONNFLOON AC COATING SYSTEM
1 Adhesion	JIS K 5600 X cutting method (4mmx4mm, n=25)	Standard 25/25
		Immersion test after 10 days 25/25
2 Water permeability	JIS A 6909-7-12 Permeability test B	After 1 day 0.20ml
		After 5 days 0.30ml
3 Water resistance	JIS K 5600-6-2 Water resistance test	20°Cx3 months No change
4 Repeated warming and cooling resistance	JIS K 6909-7-10 Repeated warming and cooling test	50 cycles No change
5 Alkali resistance	JIS K 5600-6-1 Alkali resistance test	20°Cx1 months No change
6 Accelerated weatherability	JIS K 5400 Accelerated weatherability 4000 hours	Appearance No change
		Rate of turning yellow (ΔYI) 2.59
7 Weatherability	JIS K 5600-7-6 Weatherability	Gloss retention (%) 80
		5 years (Chiba) 3 years (Okinawa) No change