BONNFLON WATERBASE AC

5 main features of BONNFLON WATERBASE AC COATING SYSTEM

1. Outstanding weatherability

Outstanding weatherability of fluororesin material presents a coatng 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 convered by fluororesin 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.





Bonnflon Waterbase AC Coating System-Fluoropolymer Concrete Protection Coating

BONNFLON Waterbase AC Coating system developed by AGC COAT-TECH CO., Ltd (ACT) is the world's first concrete protective coating for civil engineering and construction application. Asahi Glass Co., Ltd (AGC), a parent company of AGC-TECH CO., Ltd (ACT), is a leading total chemical industrial company in Japan. AGC developed and commercialized a fluoropolymer resin called LUMIFLON that features excellent weatherability, capability of drying at normal temperature, and superior appearance in 1982. BONNFLON 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.

BONNFLON Waterbase AC Coating system, possessing all the outstanding characteristics of fluoropolymer resin, therefore, makes it the most ideal and long-term protective system for concrete.

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

The fluoropolymer paints are widely known for their excellent resistance against ultraviolet attack and stability against acids and alkalis. Air pollution is worsening any painting films at an increasing speed. This is especially true in large cities where civil engineering works, buildings and other structures are under adverse effects of Nox, Sox and other pollutants contained in exhaust emission. Not only do the pollutants affect the concrete at elevated concrete structures (Monorails, expressways etc.) but also gradually reduce their physical strength. Since this corrosion could jeopardize our safety, it is very imperative to take preventive measures.

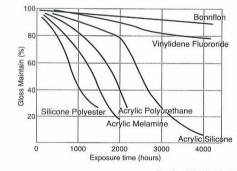


Fig.Weatherability Test

Sunshine Weather-O-Meter Humidity: 80% RH Water spray: 12 min./hour %There is no color difference between repaired parts and other parts when substrate preparation materials are used.



Performance of BONNFLON WATERBASE AC COATING SYSTEM

Test items		Methods of testing		BONNFLON AC COATING SYSTEM
1	Adhesion	JIS K 5600	Standard	25/25
		X cutting method	Immersion test	25/25
		(4mm×4mm,	after 10 days	
2	Water permeability	JIS A 6909-7-12	After 1 day	0.20ml
		Permeability test B	After 5 days	0.30ml
3	Water resistance	JIS K 5600-6-2	20°C × 3 months	No change
		Water resistance		
6	Repeated warming and cooling resistance	JIS K 6909-7-10		No change
		Repeated warming	50 cycles	
		and cooling test		
		UO 14 5000 0 4		
5	Alkali resistance	JIS K 5600-6-1	20°C × 1 months	No change
		Alkali resistance		No shoose
7	Accelarated weatherability	JIS K 5400	Apperance	No change
		Accelarated	Rate of turning yellow (Δ YI)	-2.59
		weatherability	Gloss retention (%)	80
8	Weatherability	JIS K 5600-7-6	5 years (Chiba)	No change
		Weatherability	3 years (Okinawa)	No change