



BUILDx-COAT (Coating)

Special anti-corrosion/protection coating for various substrates

BUILDx-COAT is a high performance water base 1K acrylic coating with a self-crosslinking structure. Compared to the conventional hard type acrylic emulsion and coating material in the market, it possesses much stronger anti-stain and weather/UV resistance. Also, its uniform color makes it easy to install for everyone. BUILDx-COAT is eco-friendly, non-flammable certified.

ADVANTAGES

- **Workability** : Good to use together with anti-corrosion coatings
- **Stability** : Good penetration
- **Durability** : Double crosslinked special structure allows twice stronger durability compared to normal epoxy
- **Water-based**
- **Eco-friendly** : Sanitation/Safety certificate from KWWA (Korea Water and Wastewater Works Association) Certified safety for drinking water
- **Non-flammable** : Non-flammable certified
- **UV resistance** : Strong UV resistance and stable color for over 5 years in outdoor condition
- **Easy application** : 1K
- **Fast curing**

APPLICATION

- Anti-fouling/anti-corrosion coating for indoor/outdoor concrete walls, and structures
- Repair coating
- Water storage tank, sewer pipes, bridges, etc
- Asphalt

Anti Carbonation Property Chart for concrete protection

Test Item		Unit	Test Method	Test Result	KS Standard Property
Adhesion Strength	Standard Curing	N/mm ²	KS F W4936-'08	1.9	More than 1.0
	Accelerated weathering test	N/mm ²		1.5	
	Hot and cold repetition test	N/mm ²		1.5	
	Alkali resistance test	N/mm ²		1.7	
	Heat water resistance test	N/mm ²		1.8	
Appearance of dry paint film	Standard Curing	-		No defects	None wrinkle, fine chapped, pinhole, strain, flaking on film surface
	Accelerated weathering test	-		No defects	
	Hot and cold repetition test	-		No defects	
	Alkali resistance test	-		No defects	
	Heat water resistance test	-		No defects	
Permeability resistance		-	None water penetration	None water penetration	
Carbonated thickness		mm	0.5	Less than 1.0	
Chloride ion penetration resistance		Coulombs	25	Less than 1,000	
Vapor permeance		g/m ² ·day	0.4	Less than 50.0	
Crack responsiveness	-20°C	-	None fine chapped and none fracture	None fine chapped and none fracture	
	20°C	-	None fine chapped and none fracture		
	Accelerated weathering test		None fine chapped and none fracture		

Comparison chart (EPOXY VS BUILDx-COAT)

PROPERTY	Epoxy	BUILDx-COAT
Appearance	2K(Main resin+ Hardener)	1K type
Workability	Mixing in site/ Need skilled worker	Easy work(Anyone can use)
Application length	3days Primer(12h)→ Lining(12hr)→Coating	1days Sealer(2h)→ lining(2h)→ Coating
Application site loss	Impossible reuse	Possible reuse
Eco-friendly	Solvent & Heavy odor	Eco-friendly product(water base)
Concealment & Yellowing	Concealment: normal/ Yellowing	Concealment : Excellent / None Yellowing
Usage	Only inside apply	Inside or Outdoor apply(UV resistance)
Durability	Normal	Better than Epoxy
	Pencil hardness : H Quantity of abrasion : 0.36g	Pencil hardness : H Quantity of abrasion : 0.29g
Anti flammable	Nothing	Achieving anti flammable certificate

PHYSICAL PROPERTIES AND PACKING

Physical Properties	
Appearance	White
Membrane forming	Good
pH	8.0 ± 1
Specific Gravity	1.05

PACKING : 15kg/can

SHELF-LIFE : 3 years without opening

ATTENTION

- If in contact with skin, wash immediately with soap and water
- Do not use when temperature is below 5°C or relative humidity is above 85%
- Refer to the TDS and MSDS before use
- Store the material well sealed after usage to avoid film forming

* The information, and, in particular, the recommendations relating to the application and end-use of BUILDCHEM products, are given in good faith based on BUILDCHEM's knowledge and experienced of the products when properly stored, handled and applied under normal conditions.

In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

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