

EPOXY SEALANT

DH-400S Dry Type Sealing Material

Product Information

Representative high strength epoxy sealing material intended for the repair and reinforcement of concrete structures. It is designed as crack sealing material for epoxy injection and steel plate reinforcing, and for various other purposes including for the setting of syringe injector. It has an excellent bonding strength with concrete and high crash worthiness.



Characteristics

Thanks to the superior properties of epoxy resin, it maintains an excellent adhesive strength for wide range of materials such as concrete, metal and cement mortar etc. Chemicals are not dried while they are agitated and can be easily removed with a hand grinder. It is suitable for application to the vertical surface and ceiling because it does not run down. It solidifies by volume 100% which does not contain any volatile matter like solvent, etc and its slow hardening speed makes the work easier. The fully hardened composition does not cause any chemical action on the reinforcing bars or concrete structures, shows no shrinkage after hardening and maintains stable bondage because of little internal stress. Compared to cement mortar or concrete, it has an excellent mechanical strength in all respects including compression strength, bending strength and tensile strength, etc. and can be used as sealing material for steel plate compression injection because it is highly strong and adhesive and designed to withstand high pressure.

Usage

Sealing of cracked area for crack repairing, for setting washer and sealing for the reinforcement of steel plate

Application Area

It is designed as a sealing repair product of the cracks without staying power of the joints of concrete structure and plastering mortar. It contributes to the restoration of staying power of the structure by filling (sealing) the large cracks and cut areas with a specially processed epoxy resin of high bonding strength, tensile strength and compression strength. It improves the durability of structures by preventing water leakage from cracks and corrosion of reinforcing bars by the infiltration of harmful gas in the air. Its applications are as follows.

- Sealing of cracks of dry concrete structure
- Sealing of gap produced by dry cement plastering mortar and tile etc.
- Sealing for grouting reinforcement of aged, weakened parts of dry concrete
- Sealing for grouting repair of cracks on dry concrete molding products

DH-400S Dimension Details

Classification	Main Component	Hardening Component	Remarks
Exterior Appearance	White Paste	Black Paste	
Mixing Rate	1	1	
Specific Gravity	1.3 ± 0.1	1.2 ± 0.1	23 ± 0.5°C
Pot Life(Min)		40 ± 10	23 ± 0.5°C
Tack Free Time(Hours)		14 ± 5	23 ± 0.5°C
Hardening Time(Hours)		24~36	23 ± 0.5°C
Packing Unit	10 KG	10 KG	

DH-400S Property Data

Test Category	Result Value	Base Value	Test Method
Compression Strength (N/mm ²)	85.3	Over 50	KS F 4923
Adhesive Strength (N/mm ²)	9.2	Over 6	
Seal Breaking Expansion Rate (%)	3.2	Under 10	
Seal Strength (N/mm ²)	39.2	Over 15	
Hardening Contraction Rate (%)	1.2	Under 3	
Heating Change (110±3°C,168hr)	Weight Change Rate (%)	Under 5	
	Volume Change Rate (%)	Under 5	

Pot Life the period of time during which you can work without a change in viscosity after resin and hardener are mixed.

Tack Free the state of hardening in which you can lightly touch the mixed resin with your hand, but the hardened material does not stick.

Hardening Time the time it takes for the mixed resin to be hardened enough to realize about 80% of final mechanical strength.