



CYLAN



Silane Coupling Agent

BORICA

Cylan™, Silane Coupling Agent

Coupling agent is often used to improve the adhesion between resin polymer and inorganic substrate. Borica, as a global leading manufacturer of Titanate coupling agent, is now expanding a new product line, Cylan™ Silane coupling agent, to provide a total solution for interfacial chemistry. Silane coupling agent, a silicon based chemical possess a reaction site that bonds to inorganic substrate (such as glass, metal or minerals), and has another functional group that reacts with organic material. With the variety of different functional groups, silane has been widely used in a diversity of applications:

- Glass Fiber Treatment
Sizing for fiber, increase the adhesion between fiber and resin, improve the mechanical strength of the composites.
- Anti-corrosive Coating
As cross-linker in anti-corrosive coating, improve adhesion/film strength and anti-corrosive performance
- Artificial Marble
Increase dispersion of ATH in resin/polymer, improve mechanical strength and allow higher loading of filler & better processibility
- Cable and Wire
As cross-linker for PE/PVC cable, increase heat resistance, reduce torque and die drool, better dispersion of filler
- Casting
Increase mold strength, less resin required

Cylan™ Product Range

Cylan Products	Chemistry	CAS No	EC No
APTE	3-Aminopropyltriethoxysilane	919-30-2	213-048-4
EPTM	3-(2,3-Epoxypropoxy)propyltrimethoxysilane	2530-83-8	219-784-2
MPTM	3-Methacryloxypropyltrimethoxysilane	2530-85-0	219-785-8
VTM	Vinyltrimethoxysilane	2768-02-7	220-449-8
TEOS	Tetraethoxysilane	78-10-4	201-083-8

Cylan™ Selection Guide by Applications

Cylan Type \ Applications	APTE	MPTM	EPTM	VTM	TEOS
Glass fiber treatment	⊙	⊙	⊙		
Anti-corrosive coating		○	⊙		○
Artificial marble	⊙	⊙			
Cable and wire		⊙		⊙	
Casting	⊙				

⊙: Highly recommended; ○: Recommended

*This table to be taken as general guideline

Borica is committed to provide Cylan™ silane coupling agent with high quality, good service and a competitive price.