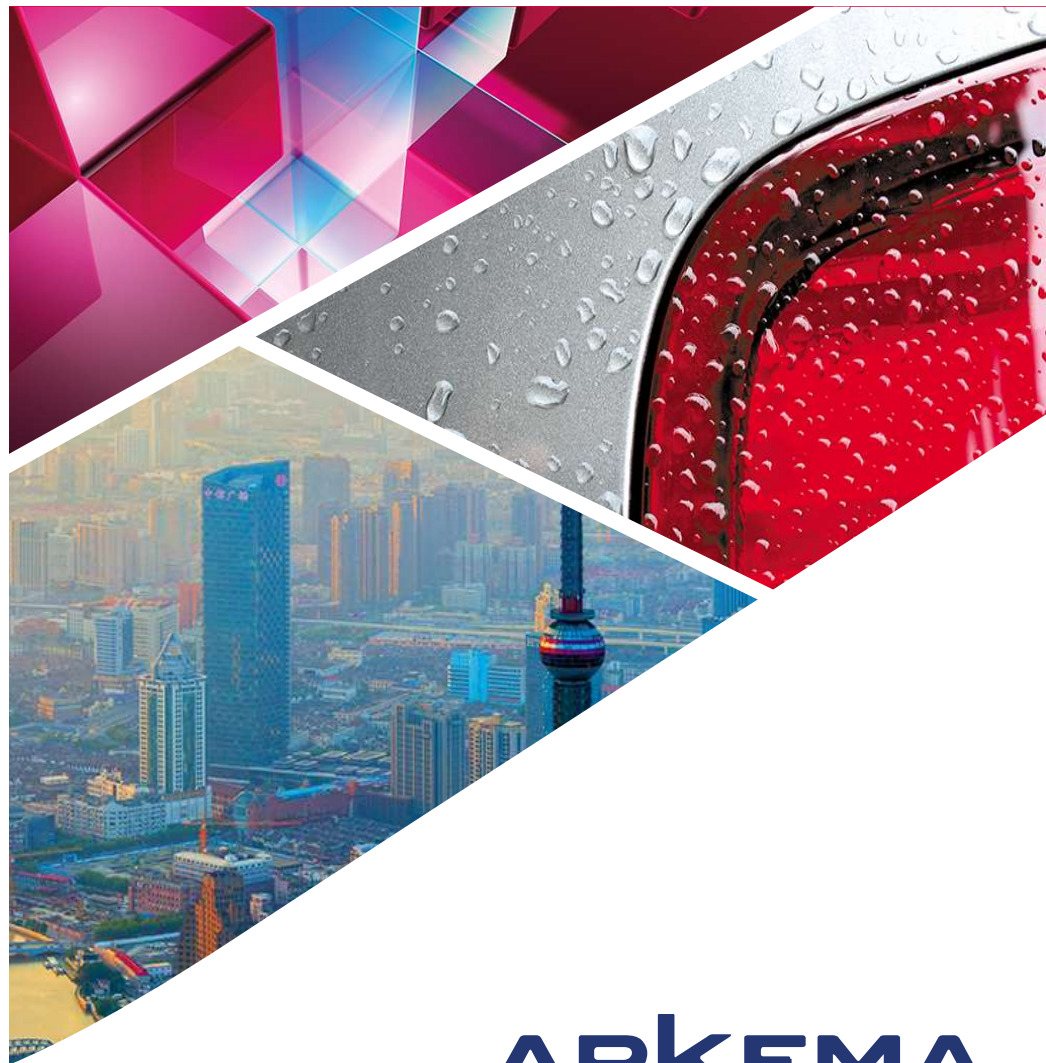


ENCOR 446 CS SALES TOOL



ARKEMA
INNOVATIVE CHEMISTRY

ENCOR 446 CS BASIC DATA

- ✦ ENCOR 446 CS is a very low surfactant styrene acrylic latex for use in various construction and adhesive applications. It is useful in applications such as water-resistant construction adhesives and cement admixtures.
- ✦ ENCOR® 446 CS features high dry-film adhesion to a variety of substrates, including low energy surfaces, and yields tough, flexible films. In addition, it has high solids (62%) and quick water release for fast drying.

❖ Basic data

➤ Appearance:	Milky white
➤ S.C.:	62%
➤ PH :	6
➤ P.S.(um):	0.3
➤ Viscosity (Brookfield, cP)	<1000
➤ Tg °C	12
➤ MFFT °C	6

❖ Typical applicatoin

- 2K waterproofing mortar
- Interface agent
- Repair mortar
- CTA

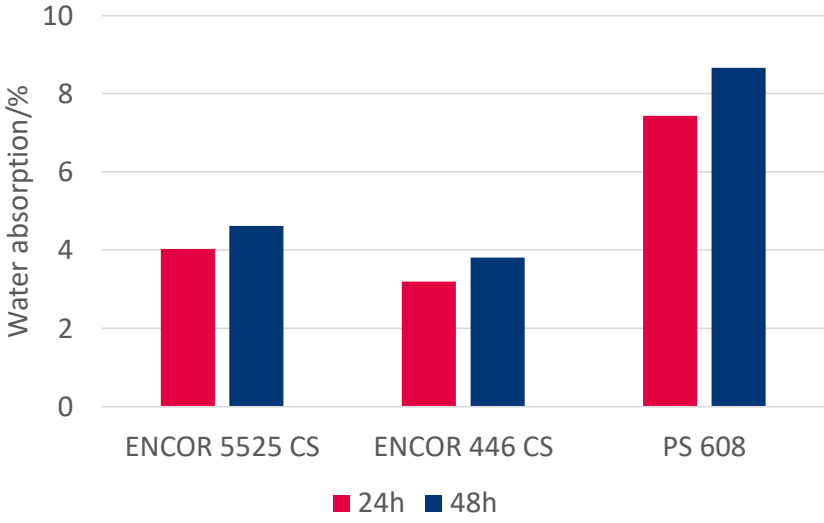
JC/T 2090 STARTING FORMULATION (9:25)

Liquid part			
ENCOR 446		22	
Water		77.7	
Foamaster NXZ		0.3	
Powder part:			
P.O 42.5 cement		45	
Sand (70-140mesh)		42.6	
CaCO ₃ (325mesh)		12.5	
M10		0.12	
F10		0.2	
L:P		9:25	
		Results	JC/T 2090 I
Bonding strength/Mpa	Normal	1.25	≥0.7
	Alkali treatment	1.32	≥0.7
	Water treatment	1.26	≥0.7
Flexural strength/MPa		10.8	≥4
Compressive strength/MPa		28	≥12

JC/T 984 STARTING FORMULATION (3:10)

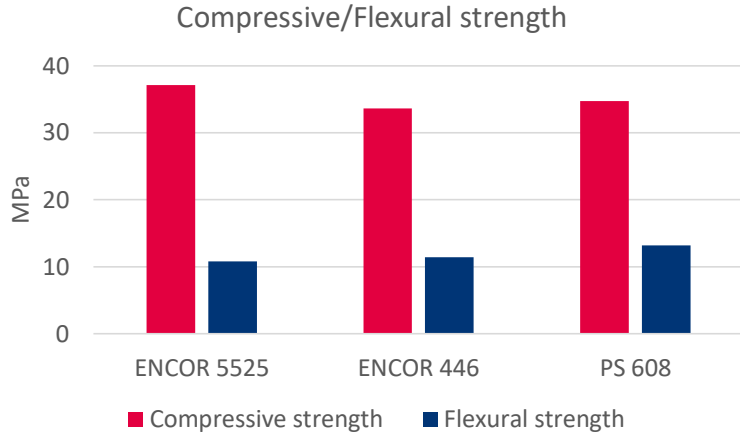
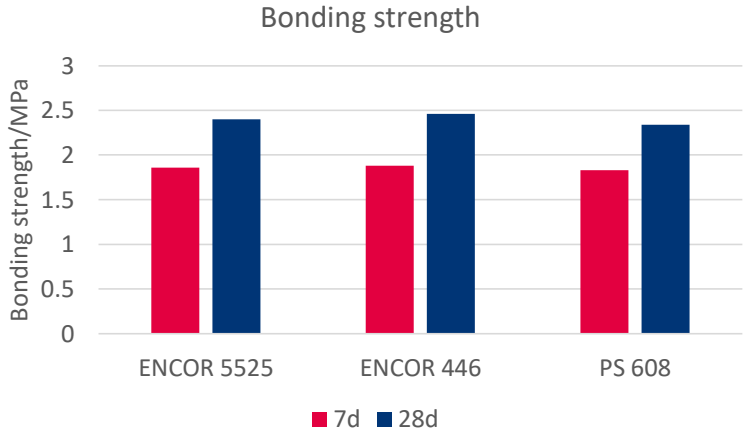
		With CaCO ₃	
Liquid part:			
ENCOR 446		32	
Water		67.8	
Foamaster NXZ		0.2	
Powder part:			
P.O 42.5 cement		45	
Sand (70-140mesh)		35	
CaCO ₃ (325目)		20	
M10		0.05	
F10		0.3	
L:P		3:10	
		Results	JC/T 984 I
Flowability/cm,0min		26	/
Bonding strength/Mpa	7d	1.98	≥0.8
	28d	2.25	≥1
Compressive strength/MPa		45.8	≥18
Flexural strength/MPa		12.1	≥6
Water absorption/%		3.81	≤6

ENCOR 446 CS WATER ABSORPTION



L:P=3:10 P:C=0.13

ENCOR 446 CS STRENGTH PERFORMANCE



L:P=3:10 P:C=0.13

JC/T 984 STARTING FORMULATION (3:10)

		Without CaCO ₃	
Liquid part:			
ENCOR 446		27	
Water		72.7	
Foamaster NXZ		0.3	
Powder part:			
P.O 42.5 cement		50	
Sand (70-140mesh)		50	
M10		0.06	
F10		0.25	
L:P		3:10	
		Results	JC/T 984 I
Flowability/cm,0min		30.5	/
Bonding strength/Mpa	7d	1.77	≥0.8
	28d	2.02	≥1
Compressive strength/MPa		36.6	≥18
Flexural strength/MPa		13.2	≥6
Water absorption/%		4.43	≤6

JC/T 984 STARTING FORMULATION (1:4)

	Without CaCO ₃	With CaCO ₃		
Liquid part:				
ENCOR 446	35	35		
Water	64.7	64.7		
Foamaster NXZ	0.3	0.3		
Powder part:				
P.O 42.5 cement	45	40		
Sand (70-140mesh)	54.7	50		
CaCO ₃ (325mesh)	0	9.7		
M10	0.04	0.04		
F10	0.3	0.3		
L:P	1:4			
	Results		JC/T 984 I	
Flowability/cm,0min	133	135	/	
Bonding strength/Mpa	7d	1.38	1.37	≥0.8
	28d	1.37	1.52	≥1
Compressive strength/MPa	30	31.4	≥18	
Flexural strength/MPa	11.9	12.3	≥6	
Water absorption/%	5.7	5.84	≤6	

ENCOR 446 CS FOR CTA APPLICATION

	30% ENCOR 446	35% ENCOR 446	30% Styrofan ECO 7623
Bonding strength/MPa	1.05	1.3	1.21
Bonding strength after water treatment/MPa	0.97	1.28	1.05

