

CMC—Sodium Carboxymethyl Cellulose

Kimicell CMC is easy soluble in both cold and hot water. It provides excellent properties of thickening, water retention, film-forming, rheology and lubricity, which enable Kimicell CMC cover a wide range of applications like food, personal care products, industrial paints, ceramics, oil drilling, building materials etc..



Recommended applications

Juice, Soft drinks, Yogurt, Ice cream, Instant noodle, Bakery

Ceramics, Paints, Oil field, Building materials

Tooth paster, shampo

Typical properties

Appearance	White to off-white powder
Particle size (100 %)	0.12-0.18mm
Degree of substitution	0.7-1.5
PH value	6.0~8.5
Purity (%)	96min, 99min, 99.5min
Viscosity range (mPa.s, Brookfield, 2%solution 20-25℃)	300-100,000
Viscosity range (mPa.s, NDJ, 2%solution 20-25℃)	300-200,000

Popular types and applications

Products type	Product name	Viscosity(Brookfield, mPa.s, 1%)	Applications
Food grade	KCM 500FM	400-600	Juice, Soft drinking, Yogurt, Ice cream, Instant noodle, Bakery, Tooth paste.
	KCM 2000F	2000-3000	
	KCM 4000F	4000-5000	
	KCM 7000F	7000-8000	
Industrial grade	KCM 800C	700-1000	Ceramics, Paints, Oil field, Building materials.
	KCM 1200C	1000-1500	
	KCM 4000P	4000-5000	
	KCM 6000P	6000-7000	
	KCM 80,000QD	70,000-80,000	

HEC—Hydroxyethyl Cellulose

Kimicell HEC is nonionic water-soluble cellulose ether, used as thickener, protective colloid, water retention agent and rheology modifier in different applications like water-based paints, building materials, oilfield chemicals and personal care products.

Recommended applications

Water-based paints

Building materials

Oilfield chemicals

Personal care products



Typical properties

Appearance	White to off-white powder
Particle size(100%)	0.15-0.18mm
Molar substituting on degree (MS)	1.8~2.0
Water insolubles (%)	≤0.5
PH value	6.0~8.5
Moisture (%)	≤5.0
Viscosity range (mPa.s, Brookfield, 2%solution 20-25℃	150-75,000
Viscosity range (mPa.s, NDJ, 2%solution 20-25℃	150-150000



Popular types and viscosity

Products type	Product name	Viscosity(Brookfield, mPa.s, 2%)	Performance
Regular type	KEC 150	150-200	Ease of solution, lubricity, good water retention, improving color development and stabilization.
	KEC 6,000	5,000-6,500	
	KEC 15,000	9,000-12,000	
	KEC 30,000	15,000-22,000	
	KEC 60,000	30,000-40,000	
	KEC 100,000	45,000-60,000	
	KEC 150,000	60,000-75,000	
Biostable type	KEC 30,000B	15,000-22,000	Low-foaming, better opacity and more stable viscosity.
	KEC 60,000B	30,000-40,000	
	KEC 100,000B	60,000-75,000	

HPMC—Hydroxypropyl Methyl Cellulose

Kimicell HPMC is a high efficient water retention, stabilizer, adhesives, and film-former for construction materials. They are available in different modifications.

When used in building materials, it improves the workability by enhancing adhesion, water retention, and lubricity, shrink and crack resistance.



Typical properties

Appearance	White to off-white powder
Particle size(100%)	0.13-0.16mm
Methoxyl content (%)	19-25
Hydroxypropyloxy content (%)	4-12
Gelation temperature (°C)	60-90
Moisture (%)	≤5.0
PH value	5.0~8.0
Residue on ignition (%)	≤1.0
Viscosity range (mPa.s, Brookfield, 2%solution 20-25°C)	300-100,000
Viscosity range (mPa.s, NDJ, 2%solution 20-25°C)	300-200,000

Recommended applications

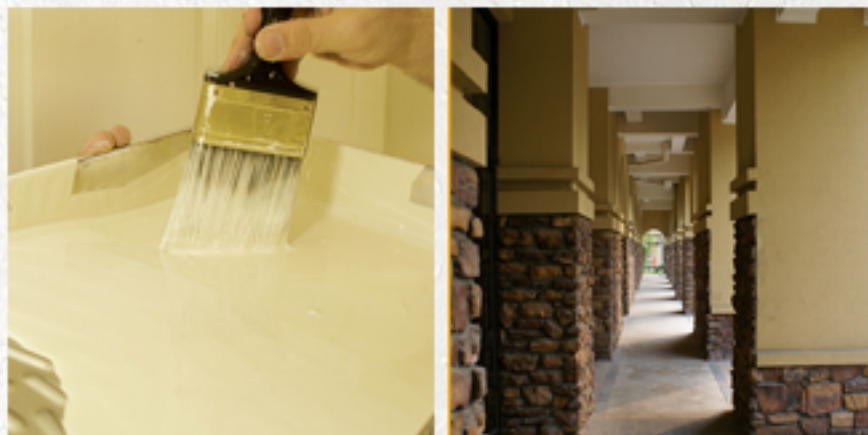
Cement-based tile adhesives, Mortars, Grouts, Textures, Stuccos
 Gypsum-based tape-joint compounds, Fillers, Plasters
 Exterior Thermal Insulation Systems
 White render finishes

Popular types and viscosity

Products type	Product name	Viscosity(Brookfield, mPa.s, 2%)	Performance
Non-surface treated type	KMP 60,000N	30,000-40,000	Fast solution, good water retention, and better for dry-mix products.
	KMP 150,000N	60,000-75,000	
Surface treated type	KMP 300	250-400	Delayed-solution, longer open-time, and good water retention, universal types.
	KMP 40,000	24,000-30,000	
	KMP 75,000	36,000-45,000	
	KMP 150,000	60,000-75,000	
	KMP 200,000	90,000-110,000	
Modified type	KMP 150,000M	60,000-75,000	Both adhesion and water retention improved, longer open time, and better thixotropic property.
	KMP 100,000M2	45,000-60,000	
	KMP 30,000M4	15,000-22,000	

MHEC—Methyl Hydroxyethyl Cellulose

Kimicell MHEC can be used for both paints and construction materials as thickener, protective colloid, water retention agent and rheology modifier. When applied under high temperature for building materials, MHEC has better performance than HPMC.



Recommended applications

Cement-based tile adhesives, Mortars, Grouts, Textures, Stuccos

Gypsum-based tape-joint compounds, Fillers, Plasters

White render finishes

Paints

Typical properties

Appearance	White to off-white powder
Particle size(100%)	0.13-0.16mm
Molar substituting on degree (MS)	1.8-2.0
Moisture (%)	≤5.0
PH value	5.0~8.0
Residue on ignition (%)	≤1.0
Viscosity range (mPa.s, Brookfield, 2%solution 20-25℃)	300-100,000
Viscosity range (mPa.s, NDJ, 2%solution 20-25℃)	300-200,000



Popular types and viscosity

Products type	Product name	Viscosity(Brookfield, mPa.s, 2%)	Performance
Regular type	KEM 300	250-400	Universal types, when used for construction materials under high temperature, it has better performance than HPMC.
	KEM 15,000	10,000-12,000	
	KEM 40,000	24,000-30,000	
	KEM 75,000	36,000-45,000	
	KEM 100,000	50,000-60,000	
Modified type	KEM 150,000M	60,000-75,000	Better adhesion and water retention.
	KMP 80,000M2	40,000-45,000	