

## Offer Sheet

Product	Polycarboxylate Based Superplasticizer
Quantity	800 pallets
Net weight	1,000 kg/pallet ~1,763,700 lbs.
Manufacture date	
Availability	One time
Location	Dalton, GA (55% of the volume) Sacramento, CA (45% of the volume)
Date	12/16/25
COA & SDS	Attached below



Polycarboxylate ether (PCE) superplasticizers are **high-performance chemical admixtures** widely used in the construction and concrete industry. They are primarily designed to **improve the workability and flow of concrete** without increasing water content.

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**1. Ready-Mix Concrete**

- Used to **enhance flow and workability** for ready-mix concrete applications.
  - Enables easier pumping and placement of concrete, especially for high-strength mixes.
  - Reduces the risk of segregation and bleeding.
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**2. High-Performance and Ultra-High-Performance Concrete**

- Essential for **high-strength concrete (HPC)** and **ultra-high-performance concrete (UHPC)**.
  - Allows for **lower water-to-cement ratios**, resulting in stronger, more durable concrete.
  - Improves **early and final compressive strength**.
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**3. Self-Consolidating Concrete (SCC)**

- Enables the production of **self-consolidating or self-leveling concrete**, which flows under its own weight without mechanical vibration.
  - Reduces labor requirements and improves surface finish in construction projects.
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**4. Precast Concrete**

- Facilitates **high-quality precast elements** with complex shapes.
  - Improves **mold filling**, surface finish, and reduces the risk of defects.
  - Allows for faster demolding due to improved strength gain.
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**5. Pumped Concrete Applications**

- In concrete pumping operations, PCEs reduce viscosity and improve flow.
  - Allows concrete to travel long distances through pipes with minimal friction.
  - Reduces energy costs and mechanical wear on pumping equipment.
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**6. Mass Concrete and Large Structural Elements**

- Used in **dams, bridges, and large foundation pours** to control water content and improve workability.
  - Helps prevent thermal cracking by allowing lower water content while maintaining flow.
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**7. Shrinkage-Reducing Applications**

- Some formulations of PCE superplasticizers **reduce drying shrinkage** and improve dimensional stability.
  - Useful in pavements, slabs, and industrial floors.
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**8. Specialty Concrete Mixes**

- Decorative concrete, colored concrete, and architectural finishes benefit from improved flow and reduced segregation.
- Enables innovative construction techniques such as 3D concrete printing.

Chemical Admixtures Certificate Of  
Analysis

Document No.: MCO-024-04

NO.: PAGE  
2024040301

客户 Customer:					
品名 Product:	High Range Water Reducer PC-201 (powder)	生产日期 Production Date:	2024.04.03	生产批次 Production LOT:	2024040301
数量 Quantity:	24 MT	包装    Package	25KGS/BAG	出厂日期 Release Date:	2024.04.07
序号 No.	检验项目 Inspection Items	单位 Unit	标准要求 Standard	检验结果 Inspection result	单项判定 Conclusion
1	外观 Appearance	\	白色 White	白色 White	合格 Qualified
2	含固量 Solid content	Min. %	依客户要求 As to client	\	\
3	含水率 Water content	Max. %	4	2.38	合格 Qualified
4	密度 Density	g/cm3	500-600	550	合格 Qualified
5	PH值 pH-value	\	\	8.64	\
6	水泥净浆流动度 Cement paste fluidity	Min. mm	140	149	合格 Qualified
7	砂浆减水率 Mortar water reduction ratio	%	\	\	\
8	混凝土减水率 Concrete water reduction ratio	Min. %	25	35	合格 Qualified
9	混凝土含气量 Concrete air content	Max. %	6	3.6	合格 Qualified
检 验 结 论 Inspection Conclusion	依据 GB/T8076 的规定，本产品质量检验--合格 According to the natinal provision of GB/T8076, the product is up to standard. <div>检验部门盖章 Inspection Department Stamp:</div>				
			签发日期 Date:	2024.04.07	
备注 Remarks:	\	室内温度 Room temperature:		20±3℃	
		实际温度 Actual temperature:		21℃	

Chemical Admixtures Certificate Of  
Analysis

Document No.: MCO-024-04

NO.: PAGE  
2024040501

检验日期 Inspection Date:	2024.04.07	检验人 Checked By: Xiangyu Zhao	复核人 Rechecked By: Jingrui Yang
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Document No.: MCO-024-04

NO.: PAGE  
2024040501

客户 Customer:					
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数量 Quantity:	24 MT	包装 Package	25KGS/BAG	出厂日期 Release Date:	2024.04.07
序号 No.	检验项目 Inspection Items	单位 Unit	标准要求 Standard	检验结果 Inspection result	单项判定 Conclusion
1	外观 Appearance	\	白色 White	白色 White	合格 Qualified
2	含固量 Solid content	Min. %	依客户要求 As to client	\	\
3	含水率 Water content	Max. %	4	2.98	合格 Qualified
4	密度 Density	g/cm3	500-600	562	合格 Qualified
5	PH值 pH-value	\	\	8.5	\
6	水泥净浆流动度 Cement paste fluidity	Min. mm	140	144	合格 Qualified
7	砂浆减水率 Mortar water reduction ratio	%	\	\	\
8	混凝土减水率 Concrete water reduction ratio	Min. %	25	35	合格 Qualified
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\	外观 Appearance	\	白色 White	白色 White	合格 Qualified
2	含固量 Solid content	Min. %	依客户要求 As to client	\	\
3	含水率 Water content	Max. %	4	2.48	合格 Qualified
4	密度 Density	g/cm3	500-600	544	合格 Qualified
5	PH值 pH-value	\	\	8.64	\
6	水泥净浆流动度 Cement paste fluidity	Min. mm	140	142	合格 Qualified
7	砂浆减水率 Mortar water reduction ratio	%	\	\	\
8	混凝土减水率 Concrete water reduction ratio	Min. %	25	35	合格 Qualified
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## PC-201 Polycarboxylate Based Superplasticizer

### Description

**Chemistry:** PC-201 is a poly-ester type polycarboxylate superplasticizer of sprayed powder.

**Characteristic:** high water reduction rate, good dispersion, and excellent adaptability with cement and gypsum, good fluidity. It is a green environmental product with good comprehensive index and no pollution.

This product is in line with the national standard GB8076-2008 for the superplasticizer index.

### Fields of Application

- \*Cement based and gypsum based self-leveling mortar.
- \*Grouts, special early strength mortar, repair mortar, grouting agent, grouting materials etc.
- \*Water-proofing materials, refractory materials.

### Technical Data

Appearance	White Powder
Water Content(Powder)	≤4.0%
Ph-value(20℃) (20% solution)	7.0~8.0
Total Alkali Content	≤0.05%
Concrete Water Reduction Ratio	≥30.0%
Concrete Air Content	≤6.0%
Dosage Recommendation in relation to weight of binder	Cementious:0.16~0.30% Gypsum: 0.05~0.2%

### Usage/Storage

- \*Keep the product away from eyes, mouth and skin carefully during use. Protective gloves and glasses are recommended. Rinse out with plenty of water after accidentally touched.
- \*The powder product absorbs moisture easily to crack. To be stored in unopened packaging, please store dry at usual ambient temperature. Don't stack up too high.
- \* This product is non-toxic, non-irritating, and incombustible.
- \*Shelf time: 12 months since the production date. Test before using if the product is expired.

### Package

Fiber drum: 25kgs/drum; Plastic bag: 25