



PERFORMANCE CHEMICALS FOR CONSTRUCTION AND PUBLIC WORKS

- 1. Flooring Materials**
- 2. Polyurethane for Architectural Paints**
- 3. Water Sealants**
- 4. Dispersant for Manufacturing Cement Boards by Extrusion Molding**
- 5. Foaming Agent for Foam Concrete and Shield Tunnel**
- 6. Agents for Drilling Mud**
- 7. Waste Mud Solidification**
- 8. Polymer Flocculants for Gravel Washing Wastewater Treatment**
- 9. Binder for Ceramics**
- 10. Modifier for Asphalt Pavement**

IMPORTANT :

Before handling these products, refer to the current Safety Data Sheet for recommended protective equipment, and detailed precautionary and hazards information.

SANYO CHEMICAL PRODUCT OUTLINE

1. Flooring Materials

Product Name	Principal Component (Product Form)	Uses and Features
SANPRENE C-810	Urethane prepolymer (Liquid)	SANPRENE C-810 is a one-component type moisture-curing polyurethane coating agents for wood floors. The resulting flooring excels in impact resistance, flex-resistance, water resistance and chemical resistance.

2. Polyurethane for Architectural Paints

Product Name	Principal Component (Product Form)	Uses and Features
UCOAT Products	Water-borne polyurethane dispersions (Anionic)	These products are polyurethane dispersions which are suitable as a pigment dispersing resin for paint because this product has high pigment dispersibility and also imparts toughness and water resistance to paint film.

3. Water Sealants

Product Name	Principal Component (Product Form)	Uses and Features
CHEMIGUARD CS-3	Urethane prepolymer (Paste)	CHEMIGUARD CS-3 is Sealant as a one component moisture-curing type contained in a cartridge. This product absorbs water, which doubles its volume, thereby filling gaps with near perfect water cutoff performance.

4. Dispersant for Manufacturing Cement Boards by Extrusion Molding

Product Name	Principal Component (Product Form)	Uses and Features
LEVEFLOW EX Products	Methacrylate polymer (Liquid)	These products are dispersants for manufacturing cement boards by extrusion molding, which improves fluidity of cement. It enables cement boards to be produced with a beautiful finish at lower extrusion pressure and higher speed on extrusion molding machines.

5. Foaming Agent for Foam Concrete and Shield Tunnel

Product Name	Principal Component (Product Form)	Uses and Features
LEVEFLOW SR Products	Surfactant compound (Liquid)	These products allow concrete to become lightweight by containing fine bubbles in a mixture of LEVEFLOW SR/ water and adding cement fluid. They also improve fluidity of excavated soil and protect the cutting tool of shield tunnel boring machines.

6. Agents for Drilling Mud

Product Name	Principal Component (Product Form)	Uses and Features
LEVEFLOW SS Products	Acrylate polymer (Liquid)	These products are stabilizing liquid with low viscosity and superior resistance to deterioration even when earth, sand and extraneous cement become mixed into the cement of the reinforcement walls.

7. Waste Mud Solidification

Product Name	Principal Component (Product Form)	Uses and Features
SANFRESH Products	Cross-linked polyacrylate of super absorbent polymers (Powder)	These products are able to absorb 400 to 700 times as much water as their own weight due to their high water absorbency. After absorbing water and becoming gel, these products retain water even when some pressure is applied to the gel.

8. Polymer Flocculants for Gravel Washing Wastewater Treatment

Product Name	Principal Component (Product Form)	Uses and Features
SANFLOC SW Products	Polyacrylamide (Powder)	Water-soluble linear polymers with high molecular weight. They excel in absorption of suspended particles and flocculate the fine particles into coarse flocs because there are many active groups in the molecules. They promote sedimentation of flocs; and they facilitate clarification of suspension, and filtration and dewatering of sludge.

9. Binder for Ceramics

Product Name	Principal Component (Product Form)	Uses and Features
CB-1	Acrylic resin (Beads)	CB-1 is an acrylic resin which exhibits a high thermal decomposition, and high-molecular-weight type. It exhibits an excellent molded shape retention property and hardness of resulting ceramics. Expected applications are as binders for injection molding.

10. Modifier for Asphalt Pavement

Product Name	Principal Component (Product Form)	Uses and Features
VISCOL Products	Low-molecular-weight polypropylene (Powder)	These products improve the durability of asphalt pavement and contribute to longer road life without impairing workability of paving.

PRODUCT LIST

1 PERFORMANCE CHEMICALS FOR SYNTHETIC RESIN & RUBBER INDUSTRIES AND PAINT, INK & PIGMENT INDUSTRIES

1. Emulsifiers for Emulsion Polymerization
2. Pigment Dispersants (Oligomer Type)
3. Resin Modifiers
4. Antistatic Agents
5. Mold Releasing Agents
6. Printing Ink Binders
7. Compounding Ingredients for Paints and Printing Inks
8. Pigment Dispersants (Surfactant Type)
9. Defoaming Agents
10. Plasticizers for Polyurethane-Based Sealants

2 PERFORMANCE CHEMICALS FOR COSMETICS, PHARMACEUTICALS, AGRICHEMICALS AND DETERGENTS

Performance Chemicals for Cosmetics

1. Base Materials for Shampoos (Anionic Type)
2. Base Materials for Shampoos (Amphoteric Type)
3. Foam Stabilizers and Thickeners for Shampoos
4. Base Materials for Body Washes
5. Base Materials for Hair Conditioners
6. Compounding Ingredients for Cosmetics
7. Emulsifiers for Cosmetics
8. Gelling Agents for Cosmetics

Performance Chemicals for Pharmaceuticals

1. Tablet Binders
2. Base Materials for Ointments
3. Coating Agents for Tablets
4. Germicides (Pharmaceutical Use)
5. Other Products for Pharmaceuticals

Performance Chemicals for Agrichemicals

1. Dispersants for Agrichemical Granule Preparations

Performance Chemicals for Detergents

1. Base Materials for Detergents
2. Germicides (Industrial Use)
3. Additives for Detergents
4. Base Materials for Household Fabric Softeners
5. Industrial Defoaming Agents

3 PERFORMANCE CHEMICALS FOR POLYURETHANE AND POLYURETHANE-RELATED INDUSTRIES

1. Polyether Polyols for Flexible Slabstock Polyurethane Foams
2. Polyether Polyols for Automobile Hot Molded Seat Cushions
3. Polyether Polyols for Automobile High-Resilient Molded Seat Cushions
4. Polyether Polyols for Crushpad Foams
5. Polyether Polyols for Rigid Polyurethane Foams
6. Multi Functional Polyols
7. Polyether Polyols for CASE
8. Base Materials for Synthetic Leathers
9. Water-Borne Polyurethanes for Textile Processing
10. Water-Borne Polyurethane for Coatings

4 PERFORMANCE CHEMICALS FOR LUBRICANT INDUSTRIES AND MACHINERY & METAL PROCESSING INDUSTRIES

1. Lubricant Additives
2. Base Materials for Polyalkylene Glycol-Type Lubricants
3. Base Materials for Water-Soluble Quenchants
4. Base Materials for Hydraulic Fluids
5. Materials for Brake Fluids
6. Rust Inhibitors
7. Water-Soluble Cutting Fluids
8. Emulsifiers for Metal Working Oils
9. Base Materials for Metal Cleaners

5 PERFORMANCE CHEMICALS FOR RESOURCE EXTRACTION AND MINING INDUSTRIES

1. Polymer Flocculants
2. Dewatering Accelerator
3. Cold Flow Improvers
4. Lubricity Improver
5. Dewaxing Aids

6 PERFORMANCE CHEMICALS FOR WASTEWATER TREATMENT

1. Polymer Flocculants
2. Aminoalkyl Methacrylate Monomers

7 PERFORMANCE CHEMICALS FOR COSMETICS SUCH AS HAIR-CARE, SKIN-CARE AND MAKE-UP

1. Foaming Agents/Detergents/Foam Improvers
2. Emulsifying Agent/Solubilizing Agent/Dispersing Agent
3. Conditioning Agents/Styling Agents
4. Thickeners/Gelling Agents/Film-Forming Agents
5. Moisturizing Agents/Moistening Agents
6. Antibacterial/Anticeptic

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9 ADHESIVES AND ADHESIVE-RELATED PRODUCTS

1. Pressure-Sensitive Adhesives (Cohesive Agents)
2. Potting Resins for Artificial Kidneys (Hollow-Fiber Type)
3. Resins for Anti-Corrosion Paints for Automobiles (for Improving Adhesion of Paints to Electrodeposition Steel)
4. Binders for Fiber-Finishing Agents
5. Binders for Fiberglass
6. Curing Agents for Epoxy Resins



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