

PRODUCTLIST

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

1. Curing Agents for Epoxy Resins and Epoxy Resin Enamels
2. Pigment Dispersants (Oligomer type)
3. Emulsifiers for Emulsion Polymerization
4. Stabilizer for Emulsions and Latexes
5. Resin Modifiers
6. Internal Antistatic Agents
7. Mold Releasing Agents
8. Printing Ink Binders
9. Compounding Ingredients for Paints and Printing Inks
10. Polyurethane Coating Materials
11. Pigment Dispersants (Surfactant type)
12. Defoamers
13. Plasticizer for Polyurethane-based Sealant

2 PERFORMANCE CHEMICALS FOR COSMETICS, PHARMACEUTICALS, DETERGENTS AND AGRICHEMICALS

- Base Materials for Shampoos (Anionic Type)
- Base Materials for Shampoos (Amphoteric Type)
- Foam Stabilizers and Thickeners for Shampoos
- Base Materials for Skin Cleansings
- Base Materials for Hair Conditioners
- Compounding Ingredients for Cosmetics
- Emulsifiers for Cosmetics
- Tablet Binders
- Base Materials for Ointments
- Coating Agents for Tablets
- Germicides (Pharmaceutical Use)
- Other Products for Pharmaceuticals
- Base Materials for Detergents
- Germicides (Industrial Use)
- Additives for Detergents
- Base Materials for Household Softeners
- Industrial Defoamers
- Emulsifiers for Emulsifiable Concentrates
- Dispersants for Granule Preparations

3 PERFORMANCE CHEMICALS FOR POLYURETHANE AND POLYURETHANE-RELATED INDUSTRIES

1. Polyether Polyols for Slab Stock Flexible PU Foams
2. Polyether Polyols for Automotive Hot Mold Seat Cushions
3. Polyether Polyols for Automotive HR Mold Seat Cushions
4. Polyether Polyols for Crushpad Foams
5. Polyether Polyols for PU Exterior Parts
6. Polyether Polyols for Rigid PU Foams
7. Polyfunctional Polyols
8. Example of PU Foam System
9. Prepolymers and Raw Materials for PU Elastomers
10. Base Materials for Synthetic Leathers
11. Water-borne Polyurethanes for Textile Processing
12. Polyurethane Emulsions for Adhesives
13. Polyurethane Emulsions for Coatings

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

1. Lubricating Oil Additives
2. Base Materials for Synthetic 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. Water-soluble Polymers for Enhanced Oil Recovery (EOR)
2. Polymer Flocculants
3. Dewatering Accelerator
4. Cold Flow Improvers
5. Lubricity Improver
6. Dewaxing Aids
7. Drilling Fluid Additives

6 PERFORMANCE CHEMICALS FOR POLLUTION CONTROL

- Polymer Flocculants

8 PERFORMANCE CHEMICALS FOR CONSTRUCTION AND PUBLIC WORKS

1. Pavement Materials
2. Flooring Materials
3. Caulking Materials for Clay Pipe Joints
4. Water Sealants
5. Mud Dispersants for Drilling
6. Waterproofing Agents
7. Concrete Admixtures

9 ADHESIVES AND ADHESIVE-RELATED PRODUCTS

1. Pressure-Sensitive Adhesives (Cohesive Agents)
2. Hot Melt Adhesives
3. Dry Laminate Adhesives for Food-Packaging Films
4. Potting Resins for Artificial Kidneys (Hollow-Fiber Type)
5. Resins for Anti-Corrosion Paints for Automobiles (for Improving Adhesion of Paints to Electrodeposition Steel)
6. Binders for Fiber-Finishing Agents
7. Polyurethane Emulsion for Bonding Plastics, Cloth and Wood
8. Binders for Fiberglass
9. Curing Agents for Epoxy Resins

10 PERFORMANCE CHEMICALS FOR TEXTILE INDUSTRY

- Processes for Textile Manufacturing and Our Performance Chemicals
 - 1. Polyester Textile
 - 2. Nylon Textile
 - 3. Acrylic Textile
 - 4. Cotton Textile
 - 5. Wool Textile
- Performance Chemicals for Textile Industry
1. Spinning Lubricants
 2. Knitting and Weaving Oils
 3. Scouring and Penetrating Agents
 4. Dyeing Auxiliaries
 5. Softeners
 6. Other Finishing Agents
 7. Modifiers for Polymers



PERFORMANCE CHEMICALS FOR CONSTRUCTION AND PUBLIC WORKS

1. Pavement Materials
2. Flooring Materials
3. Caulking Materials for Clay Pipe Joints
4. Water Sealants
5. Mud Dispersants for Drilling
6. Waterproofing Agents
7. Concrete Admixtures

IMPORTANT :

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

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1. Pavement Materials

Product	Principal Component (Product Form)	Uses and Features
SANPRENE BD System SANPRENE BD-55 SANPRENE BD PRIMER	Urethane prepolymer (Liquid) Urethane prepolymer (Liquid)	A polyurethane system used with disposed gum chips. BD-55 binds gum chips, while BD PRIMER firmly binds the treated chips to concrete surfaces, resulting in an elastic pavement.

2. Flooring Materials

Product	Principal Component (Product Form)	Uses and Features
SANPRENE FLR-565	Urethane prepolymer (Liquid)	A polyurethane product used with an appropriate curing agent for a binder of resin concrete. The resulting flooring excels in abrasion resistance, flex-resistance and chemical resistance.
SANPRENE C-810 SANPRENE C-800B-40	Urethane prepolymer (Liquid)	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.

3. Caulking Materials for Clay Pipe Joints

Product	Principal Component (Product Form)	Uses and Features
SANPRENE TK/TS System SANPRENE TS-220 SANPRENE TK-220 PRIMER SG-10	Urethane prepolymer (Liquid) Polyol/polyamine/filler (Liquid) Silane coupling agent (Liquid)	Polyurethane elastomer system for clay pipe joints that is composed of urethane prepolymer: TS-220, curing agent: TK-220, and coupling agent: SG-10. The resulting elastomer has low compression set, excels in chemical resistance, and ensures durable water-tightness of clay pipe.

4. Water Sealants

Product	Principal Component (Product Form)	Uses and Features
AQUAPRENE G Products	Hydrophilic polyurethane and rubber (Tape)	Water-swellaable sealant for tunnel segments. G products absorb water to expand about 2.5 times in volume. Through water-swelling they fill gaps between the segments and stop water leakage perfectly. They exhibit stable performance for a long time.
AQUAPRENE DX Products	Hydrophilic polyurethane and rubber (Tape)	Water-swellaable sealant for concrete construction joints. DX products absorb water to expand 2 times in volume. Through water-swelling they fill gaps produced by curing shrinkage of concrete and external forces. They exhibit stable performance for a long time.
CHEMIGUARD U-1	Urethane prepolymer and inorganic compound (Liquid)	Sealant for straight-web steel sheet piles. When joint parts are coated, it creates a water-tight seal that is close to perfect.

5. Mud Dispersants for Drilling

Product	Principal Component (Product Form)	Uses and Features
SANCARRIER No.5L	Acrylate copolymer and inorganic compound (Liquid)	Dispersant for excavation slurries that is used in excavation construction methods. They provide slurries with proper and prolonged fluidity for excavation.
Super Slurry B	Acrylate polymer (Liquid)	

6. Waterproofing Agents

Product	Principal Component (Product Form)	Uses and Features
DOUBLE COAT S System DOUBLE COAT S-1 DOUBLE COAT S-2S DOUBLE COAT S-2W DOUBLE COAT S-3	Epoxy resin (Liquid) Polyamideamine (Liquid) Polyamideamine (Liquid) Cement/silica sand (Powder)	A system composed of main component: S-1, curing agents: S-2S and S-2W, and aggregate: S-3. S-2S is recommended for use between 20 °C and 35 °C, while S-2W is for use between 5 °C and 20 °C. The system forms a water-impermeable film that adheres firmly to concrete surfaces, preventing water from entering the main part of a concrete structure, and excels in chemical resistance.

7. Concrete Admixtures

Product	Principal Component (Product Form)	Uses and Features
TETRA GUARD AS-20 TETRA GUARD AS-21 TETRA GUARD PW	Polyoxyalkylene alkyl ether (Liquid) Polyoxyalkylene alkyl ether (Liquid) Polyoxyalkylene alkyl ether and inorganic compound (Powder)	Shrinkage-reducing agents for concrete. They reduce surface tension of water contained in concrete and prevent cracks in the finished concrete structure.