Celanese

The chemistry inside innovation™

ELOTEX® Redispersible Polymer Powders
ELOTEX® Specialty Powder Additives
Celvolit® & Vinamul® Dispersions
for Building & Construction Solutions

PRODUCT PORTFOLIO MIDDLE EAST, AFRICA & TURKEY 2026

About us –
From product supplier to solutions provider

The company
We are a global technology and specialty materials company based in Dallas, Texas, operating in key geographic locations worldwide. We are continuously working on innovation and process improvement and are always looking for exciting new opportunities. In all the industries we serve, our products hold leading positions worldwide. We offer an advanced product portfolio complemented by large global production capacity, operating efficiencies, proprietary production technology and competitive cost structures.

Our two core business areas
- Acetyl Chain: acetic acid, vinyl acetate monomer, other acetyl derivatives, EVA polymers, emulsion polymers, redispersible polymer powders, specialty powder additives and cellulose derivatives
- Engineered Materials: specialty thermoplastic and food ingredients

Advanced technology for a sustainable future
At Celanese, we leverage chemistry for positive change, prioritizing safety and sustainability. Through innovative products, we champion a safer, cleaner world. Our sustainability strategy focuses on three pillars: safe solutions, community investment, and environmental preservation.

Celanese polymer powder business
The Celanese product portfolio comprises ELOTEX® redispersible polymer powders and ELOTEX® specialty powder additives. Whether used as standalone additives or in combination with one another, our products offer a powerful toolkit for polymer modified building and construction materials such as modern dry-mix mortars. Typical applications are flooring compounds, tile adhesives, tile grouts, external thermal insulation composite systems (ETICS), renders, plasters, waterproofing membranes, joint fillers and repair mortars.

ELOTEX® redispersible polymer powders are homo- and co-polymers based on vinyl acetate, ethylene, vinyl versatate and other monomers. Our products act as organic binders and are mostly used in combination with cement, gypsum and hydrated lime. ELOTEX® free-flowing polymer powders are produced by spray-drying of aqueous polymer dispersions, allowing us to supply a wide range of additives with different features. Our products are essential ingredients to enhance critical properties of modern dry-mix mortars such as adhesion, cohesion, flexibility and workability.
Moreover, ELOTEX® redispersible polymer powders allow manufacturers to formulate finished products with low volatile organic compound (VOC) emissions in accordance with demanding governmental regulations as well as requirements of internationally recognized environmental certifications and labels, such as LEED, EMICODE® and Blue Angel.

ELOTEX® specialty powder additives comprise a number of technologies ranging from silane encapsulation to engineered formulated additives. Our customers can experience unique improvements, such as improved water and stain resistance, superior water repellency, reduced efflorescence, enhanced workability, extended open time and optimized levelling properties by the use of these additives.

Celanese emulsion polymers business
Celanese manufactures one of the broadest portfolios of dispersions in the world, based on vinyl acetate, ethylene, vinyl versatate, vinyl chloride, styrene and acrylic monomers. We utilize globally both high-pressure (VAE) and conventional (atmospheric pressure) emulsion polymerization processes. Celanese polymer dispersions offer progressive solutions for different construction applications, such as ready-to-use tile adhesives, one- and two-component waterproofing membranes, joint fillers, primers and renders. Thanks to our innovative chemistry, our products provide adhesion, cohesion, flexibility and water resistance to building and construction materials.

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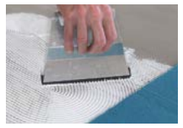

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Flooring compounds, primers & adhesives

ELOTEX® redispersible polymer powders, ELOTEX® specialty powder additives and Celvolit® dispersions enhance the performance of mineral binder-based flooring compounds, providing smooth, nearly defect-free and mechanically strong foundations for successful floor covering installations.

A smooth and flat floor surface is essential for easy installation and to maximize durability of floor finishes. Celanese polymer binders provide solutions for formulating flooring products which are capable of adhering to many types of surfaces and harden quickly without cracking, even when applied at very low layer thicknesses.

With our wide range of defoamed ELOTEX® redispersible polymer powders (RDP), it is possible to formulate premium quality self-levelling floor compounds with improved flow, adhesion, cohesion, abrasion resistance and excellent aesthetic appearance.

ELOTEX® FLOWKIT53 helps formulators to easily develop self-levelling compounds and floor screeds with a single multi-functional additive, reducing the number of ingredients needed in the formulations and overall complexity.
Our products improve flow without bleeding or segregation and show excellent defoaming and levelling properties.

Celvolit® liquid dispersions can be formulated into primers to seal the concrete surface, increase wettability and provide a surface receptive to good bonding to self-levelling compounds.

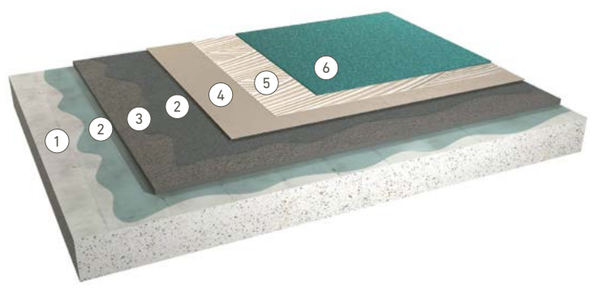
Benefits

- Increased flowability and levelling
- Improved defoaming properties and surface appearance
- Higher abrasion resistance
- Increased tensile bond strength on various substrates
- Enhanced flexural strength
- Low VOC values – *EMICODE® EC1 PLUS suitability

Typical applications

- Cement and gypsum-based self-levelling compounds and screeds
- Underlayments and overlayments
- Primers with Celvolit® dispersions
- Residential and industrial flooring
- Pumpable and manual applications
- Flooring adhesives with Celvolit® dispersions

ELOTEX® redispersible polymer powders ensure excellent performance of flooring compounds



1 concrete substrate, 2 primer, 3 floor screed, 4 self-levelling compound, 5 carpet adhesive, 6 carpet

●●● = excellent ●● = very good ● = good
●●● = highly recommended ●● = recommended ● = suitable

Redispersible polymer powders

Products		ELOTEX® FL2280	ELOTEX® FL3210	ELOTEX® FL1900
Characteristics	Chemical base	VA/E	VA/E/VV	VA/VV
	MFFT (°C), approx.	3	5	3
	Type	Hard	Hard	Hard
	Stabilization	PVOH	PVOH	PVOH
	Eco-friendly *EMICODE®	EC1 PLUS	EC1 PLUS	EC1 PLUS
Performance	Defoaming	●●	●●●	●●●
	Self-healing	●●	●●	●●●
	Flow enhancement	●●●	●●●	●●●
	Abrasion resistance	●●●	●●●	●●●
	Surface appearance	●●	●●	●●●
Applications	Cement-based SLC	●●●	●●●	●●●
	Gypsum-based SLC	●●●	●●●	●●●
	Screeds (cement/gypsum)	●●●	●●	●●
Benefits		Good defoaming, levelling, and adhesion for smooth, even surfaces.	Excellent defoaming, levelling, and adhesion with improved surface appearance.	Excellent defoaming, self-healing, and levelling properties with outstanding surface appearance, great adhesion, and high peel strength between water–based adhesives and SLC.

Specialty powder additives

Products		ELOTEX® FLOWKIT53
Characteristics	Chemical base	VA/E
	Functionality	Rheology and adhesion
	Eco-friendly *EMICODE®	EC1 PLUS
Performance	Flowability	●●●
	Adhesion and cohesion	●●●
	Defoaming	●●●
Applications	Cement-based SLC	●●●
	Gypsum-based SLC	●●●
	Screeds (cement/gypsum)	●●●
Benefits		Multifunctional additive combining features of superplasticizers, defoamers and part of RDP. Excellent defoaming, excellent flow without bleeding or segregation, very good adhesion coupled with reduced water demand, high strength development and decreased shrinkage.

Dispersions

Primers

Flooring adhesives (PVC flooring, carpets)

Products		Celvolit® LDM 7601	Celvolit® DM 1340	Celvolit® LDM 1365
Characteristics	Chemical base	S/A	VA/E/A	VA/E/A
	MFFT (°C), approx.	0	0	0
	Tg (°C), approx.	–4	–11	–28
	Solids content (%)	33–35	64–66	59–61
	pH value	7.5–8.5	3.0–5.0	4.5–6.5
	Brookfield viscosity (25 °C) (mPa·s)	10–60	1000–3000	2000–10000
	Stabilization	Surfactants	Surfactants/CD	Surfactants/PVOH
Performance	Adhesion	●●	●●	●●●
	Cohesion	●●	●●●	●●
	Penetration	●●●	–	–
Applications	Primers	●●●	–	–
	Flooring adhesives (PVC floorings, carpets)	–	●●●	●●●
Benefits		Excellent penetration properties on various substrates, such as concrete, renders, and gypsum, owing to a unique small particle size (approx. 60 nm).	Excellent cohesion, fast bond strength development, very good peel and shear strength. Suitable for formulating final flooring adhesives according *EMICODE® EC1PLUS requirements.	Very good adhesion on critical surfaces, long open time and high bond strength. Suitable for formulating final flooring adhesives according *EMICODE® EC1PLUS requirements.

Tile adhesives

ELOTEX® redispersible polymer powders, ELOTEX® specialty powder additives, and Celvolit® dispersions enhance the performance characteristics of cement-based and paste tile adhesives by improving adhesion, cohesion and deformability. Thanks to their enhanced flexibility and adhesion even on difficult-to-adhere substrates, formulators can easily develop new finishes that meet the latest architectural and design trends.

Choosing the right polymer binder for adhesives is essential for ensuring a high-quality tiling application and meeting the most challenging specification requirements defined by ISO 13007 (EN 12004).

ELOTEX® redispersible polymer powders (RDP) are well suited for formulating one-component systems with many desirable features and excellent durability, enabling the installation of a wide variety of ceramic tiles. ELOTEX® RDP modified tile adhesives offer many advantages, such as:

- Creamy consistency
- Easy, effective and reliable application when applied by thin-bed methods
- Significant improvement of adhesion strength between tiles and substrates, even after exposure to various conditions
- High mortar flexibility, which is essential for withstanding high mechanical stresses and loads

ELOTEX® OTA powder additives are specially designed to extend the open time (EN 12004) and preserve wetting and fresh mortar properties of tile adhesives.

Celvolit® polymer dispersions are used as the main binder in one-component (1K) ready-to-use tile adhesives in paste form to ensure high elasticity, bonding strength and water resistance. These properties are especially important for installing tiles in wet areas, including kitchen and bathrooms.

To this end, we offer a comprehensive range of products designed to provide formulators various solutions to develop tile adhesives with optimal performance.

Benefits

- Improved workability
- Improved adhesive strength on different substrates, even after exposure to different conditions
- Improved deformability
- Long open time and correction time
- Low VOC values – *EMICODE® EC1 PLUS suitability

Typical applications

- Interior and exterior
- Floor and wall tiles
- All format of tiles
- Porous, vitreous ceramic and natural stone tiles
- Standard and fast-setting tile adhesives
- Mineral and non-mineral substrates

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Redispersible polymer powders

Products		ELOTEX® MP2100	ELOTEX® ST2400	ELOTEX® FX3300	ELOTEX® FX3000	ELOTEX® FX1000
Characteristics	Chemical base	VA/E	VA/E	VA/E/VV	VA/E/VV	VA/VV
	MFFT (°C), approx.	3	3	5	5	5
	Type	Hard	Hard	Semi-flexible	Semi-flexible	Semi-flexible
	Stabilization	PVOH	PVOH	PVOH	PVOH	PVOH
	Rheology	Neutral	Thixotropic	Thixotropic	Neutral	Neutral
	Eco-friendly * EMICODE®	EC1 PLUS	EC1 PLUS	EC1 PLUS	EC1 PLUS	EC1 PLUS
Performance (EN 12004)	Slip resistance	–	●	●	–	–
	Open time	●	●●	●●	●●●	●●●
	Adhesion after heat ageing	●●●	●●●	●●●	●●●	●●●
	Adhesion after water immersion	●	●	●●	●●●	●●●
	Deformation	●●	●●	●●	●●●	●●●
Applications (EN 12004)	Class C1	●●●	●●●	–	–	–
	Class C2 (TE)	●●	●●●	●●●	●●	●●
	Class C2 (TE) S1	●	●	●●	●●●	●●●
	Class C2 (TE) S2	●	●	–	●●	●●●
Benefits		Good workability and tensile adhesion strength, especially after heat storage. Suitable for other applications.	Very good workability and anti-slip properties combined with good tensile adhesion, open time, and deformability.	Excellent anti-slip properties, workability and open time combined with good tensile adhesion and deformation.	Provided a well-balanced combination of workability, tensile adhesion strength, open time and deformation.	Excellent deformation and tensile adhesion strength combined with good workability, and long open time.

Specialty powder additives

Products		ELOTEX® OTA100	ELOTEX® OTA200
Characteristics	Chemical base	Formulated compound	Formulated compound
	Functionality	Open time extension	Open time extension
	Dosage range (weight % on dry mortar)	0.2–0.5	0.2–0.5
Performance	Impact on rheology (at recommended dosage)	Neutral	Minor
	Impact on early strength adhesion (at recommended dosage)	Neutral	Neutral
	Open time	●●●	●●●
	Substrate wettability	●●●	●●●
Main application	Portland cement-based tile adhesives	●●●	●●
	Fast-setting cement-based tile adhesives	●●	●●●
Further applications	Renders	●●●	●●●
	Cement-based SLC	●	●●●
Benefits		Extended open time, increased substrate wettability, delayed skin formation, longer correction time.	Extended open time, increased substrate wettability, delayed skin formation, longer correction time.

Dispersions

Products		Celvolit® LDM 6636
Characteristics	Chemical base	S/A
	MFFT (°C), approx.	13
	Tg (°C), approx.	20
	Solids content (%)	49–51
	pH value	8.0–9.0
	Brookfield viscosity (25 °C) (mPa·s)	50–300
	Stabilization	Surfactants
Performance (EN 12004)	Adhesion after water immersion	●●●
Applications (EN 12004)	One-component ready-to-use tile adhesives	●●●
	Two-component cementitious tile adhesives C2 S2	●●●
Benefits		Good workability, very good adhesion after water immersion, and good compatibility with cement.

Tile grouts

Polymer-modified tile grouts formulated with ELOTEX® redispersible polymer powders ensure professional finish for any tiling work by significantly increasing adhesion, flexibility and durability of tiled substrates. Additionally, our ELOTEX® specialty powder additives provide many performance benefits, such as improving the appearance of grouts, providing outstanding water resistance as well as reducing efflorescence.

ELOTEX® redispersible polymer powders help tile grouts to stay connected in between ceramic tiles, reduce stress-induced cracking as well as protect the surface against abrasion. By using our special range of hydrophobic ELOTEX® products, it is possible to reduce the water absorption, prevent discoloration and efflorescence for extended periods of time.

We offer a variety of products, which enables formulators to create innovative grouting solutions that can meet or even exceed the most demanding industry requirements and standards.

Benefits

- Improved adhesion to tile edges
- Increased flexibility and reduced shrinkage
- Increased cohesive strength
- Improved abrasion resistance
- Higher hydrophobicity and water repellency when using hydrophobic ELOTEX® powder products, particularly ELOTEX® SEAL200
- Great color stability and reduced efflorescence with ELOTEX® ERA product line
- Low VOC values – *EMICODE® EC1 PLUS suitability

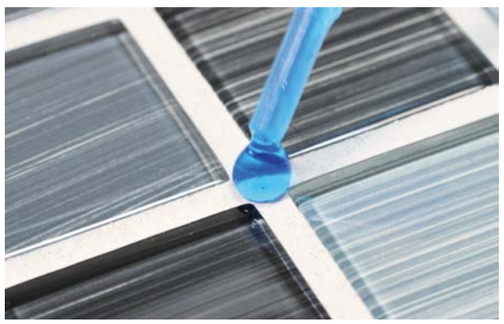
Typical applications

- Interior and exterior
- Floor and wall tiles
- All format of tiles
- Porous, vitreous ceramic and natural stone tiles
- Standard and fast-setting tile adhesives
- Mineral and non-mineral substrates

without ELOTEX® ERA100

with ELOTEX® ERA100

ELOTEX® ERA100 for efficient efflorescence control



ELOTEX® SEAL200 for outstanding hydrophobicity of tile grouts

●●● = excellent ●● = very good ● = good
●●● = highly recommended ●● = recommended ● = suitable

Redispersible polymer powders

Products		ELOTEX® MP2100	ELOTEX® HD2000	ELOTEX® HD1500
Characteristics	Chemical base	VA/E	VA/E	VA/VV
	MFFT (°C), approx.	3	3	0
	Type	Hard	Hard	Semi-flexible
	Stabilization	PVOH	PVOH	PVOH
	Eco-friendly *EMICODE®	EC1 PLUS	EC1 PLUS	EC1
Performance (EN 13888)	Adhesion	●●●	●●●	●●●
	Hydrophobicity	-	●●●	●
	Defoaming	-	●	●●●
Applications (EN 13888)	Class CG1	●●●	●●●	●●●
	Class CG2	●	●●●	●●
Benefits		Excellent workability, good adhesion and abrasion resistance. Typically recommended in combination with ELOTEX® SEAL additives for improved water resistance. Suitable for other applications.	Excellent, long lasting water repellency and reduced water absorption combined with good adhesion, and abrasion resistance.	Good defoaming, reduced water absorption, superior adhesion, and good abrasion resistance.

Specialty powder additives

Products		ELOTEX® SEAL81	ELOTEX® SEAL200	ELOTEX® ERA100	ELOTEX® ERA200
Characteristics	Chemical base	Silane	Silane	Modified natural rosin	Modified natural rosin
	Functionality	Hydrophobicity	Hydrophobicity	Anti-efflorescence	Anti-efflorescene
Performance (EN 13888)	Hydrophobicity	●●	●●●	-	●
	Oleophobicity	-	●	-	-
	Stain resistance	-	●	-	-
	Anti-efflorescence	●	●●	●●●	●●●
Applications (EN 13888)	Class CG1	●	●●	●	●
	Class CG2	●●	●●●	●	●
Benefits		Excellent water repellency and pearl effect, long term durability combined with very good wetting and mixing properties.	Superior water repellency and superior pearl effect, long term durability combined with very good wetting and mixing properties.	Efficient against primary efflorescence, very good wetting and mixing properties.	Efficient against primary and secondary efflorescence, reduced water permeability, very good wetting and mixing properties.

Waterproofing membranes & slurries

ELOTEX® redispersible polymer powders, ELOTEX® specialty powder additives and Celvolit® dispersions enhance the performance and reliability of cementitious and ready-to-use waterproofing membranes. Thanks to our broad product range, we offer advanced polymer technologies and solutions to prevent water intrusion, withstand hydrostatic pressure, improve adhesion and provide long service life.

Exposure to wet conditions, loads and thermal expansion/shrinkage can make waterproofing buildings and other structural components challenging. Therefore, high quality waterproofing membranes based on polymer binders are essential for protection against water leakages and subsequent water-induced damage.

We offer a wide range of products for different waterproofing systems.

Rigid cement-based waterproofing membranes modified with our polymer binders are suitable for moisture-proof substrates with high compressive and flexural strength, and high resistance to water penetration, providing long-term durability.

Moreover, our very flexible ELOTEX® redispersible polymer powders and Celvolit® dispersions are equally ideal for formulating flexible cement-based waterproofing membranes containing higher polymer loading (>20%), especially those used on difficult-to-adhere substrates that are also susceptible to movement. Our polymer binders provide excellent barrier against water, limit diffusion and protect against chemicals.

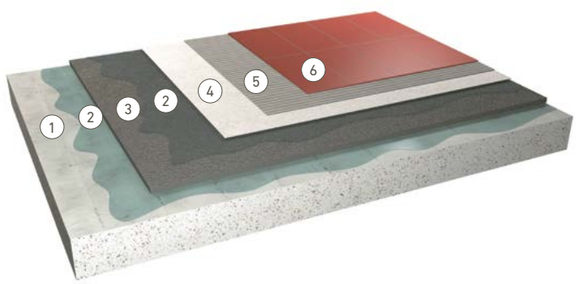
Ready-to-use (paste) waterproofing membranes modified with Celvolit® styrene-acrylic based dispersions ensure easy application, excellent flexibility and adhesion also on difficult-to-adhere substrates such as wood, gypsum etc.

Benefits

- Excellent workability
- Excellent adhesion to various substrates
- Reduce water vapor permeability
- Maintain water tightness under negative and positive hydrostatic pressures
- Improved flexibility and crack-bridging performance
- Resistance to chemicals such as carbon dioxide, chloride ions, etc.
- Long-term durability

Typical applications

- Flat roofs, terraces, basement walls
- Wet rooms such as bathrooms, kitchen, toilets
- Water tanks, water pipes
- Swimming pools and spa areas
- Surface-coating protection of structural concrete



1 concrete substrate, 2 primer, 3 floor screed, 4 waterproofing membrane, 5 tile adhesive, 6 tiles with grouts

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Redispersible polymer powders		Rigid waterproofing membranes		Flexible waterproofing membranes
Products		**ELOTEX® HD2040**	**ELOTEX® HD1500**	**ELOTEX® FX2630**
Characteristics	Chemical base	VA/E	VA/VV	VA/E
	MFFT (°C), approx.	0	0	0
	Type	Flexible	Semi-flexible	Very flexible
	Stabilization	PVOH	PVOH	PVOH
	Eco-friendly *EMICODE®	EC1 PLUS	EC1	EC1 PLUS
Performance	Water impermeability	●●	●●	●●●
	Adhesion	●●	●●	●●●
	Defoaming	●	●●●	–
	Crack-bridging +23 °C	–	–	●●●
	Crack-bridging –5 °C	–	–	●●●
Applications	Rigid 1K cementitious membranes	●●●	●●●	–
	Flexible 1K cementitious membranes	–	–	●●●
Benefits		Good water pressure impermeability, and surface hydrophobicity combined with good adhesion.	Good defoaming, excellent water pressure impermeability, and adhesion.	Excellent workability, improved flexibility and crack-bridging properties combined with great adhesion, and water pressure impermeability.

Specialty powder additives for 1K rigid waterproofing membranes

Products		**ELOTEX® SEAL81**	**ELOTEX® SEAL200**
Characteristics	Chemical base	Silane	Silane
	Functionality	Hydrophobicity	Hydrophobicity
Performance	Hydrophobicity	●●●	●●●
Applications	Rigid 1K cementitious membranes	●●●	●●●
Benefits		Excellent water repellency and long term durability combined with very good wetting and mixing properties.	Superior water repellency and long term durability combined with very good wetting and mixing properties.

Dispersions

Products		**Celvolit® LDM 6482**
Characteristics	Chemical base	S/A
	MFFT (°C), approx.	0
	Tg (°C), approx.	–7
	Solids content (%)	56–58
	pH value	7.0–9.0
	Brookfield viscosity (25 °C) (mPa·s)	1000–4000
	Stabilization	Surfactants
Performance	Water impermeability	●●●
	Crack-bridging +23 °C	●●●
	Crack-bridging –5 °C	●●●
Applications	Class DM, one-component, ready-to-use	●●●
	Class CM, two-component, flexible, high performance	●●●
	Waterproofing with bitumen	●●●
Benefits		Good workability and adhesion combined with very good crack-bridging properties, and water pressure impermeability. Good compatibility with cement and bitumen.

Concrete repair

ELOTEX® redispersible polymer powders and ELOTEX® specialty powder additives offer solutions to achieve superior physical performance and meet a broad range of challenging standard requirements of concrete repair mortars. They enable improvement to be made on many performance characteristics, including enhanced adhesion and cohesion, reduced cracking and long-term protection against intrusion of moisture and pollutants.

The successful repair and subsequent protection of damaged concrete structures require the careful selection of polymer-modified cement-based mortars. The proper choice of polymer binders depends on several considerations, including the quality of substate, expected loads and demands in accordance with EN 1504.

The addition of Celanese products to repair mortar ensure quick and easy handling, extend the service life of the repair and allow end-users to closely restore original structures.

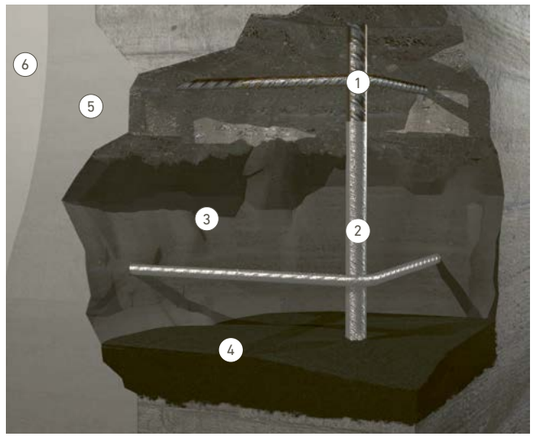
ELOTEX® TITAN8100 is a specially designed acrylic-based polymer powder with outstanding adhesion, even to difficult-to-adhere surfaces such as an embedded reinforcing steel bar. Thanks to its great chemical resistance, TITAN8100 is the smart choice for protection against weathering and cracking caused by volume changes for extended periods of time.

Benefits

- Improved workability
- Excellent bonding to the concrete substrates
- Optimized deformability and flexural strength
- Reduced cracking
- Protection against moisture absorption, CO_2 penetration and pollution

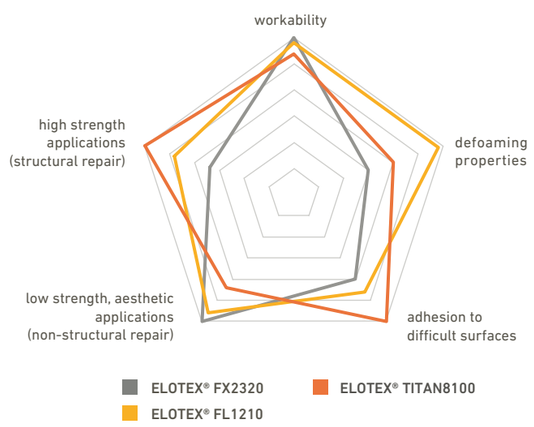
Typical applications

- Repair work on damaged or deterioration concrete structures (non-structural and structural concrete repair)
- For levelling and repair work on floors
- Horizontal and vertical surfaces



1 steel bar, 2 anti-corrosion slurry, 3 bonding primer,
4 repair mortar, 5 smoothing mortar, 6 concrete protection coat

ELOTEX® RDP for concrete repair



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Redispersible polymer powders

Products		ELOTEX® FX2320	ELOTEX® FL1210	ELOTEX® TITAN8100
Characteristics	Chemical base	VA/E	VA/VV	A
	MFFT (°C), approx.	0	5	0
	Type	Flexible	Semi-flexible	Hard
	Stabilization	PVOH	PVOH	Acrylic copolymer
	Eco-friendly *EMICODE®	EC1 PLUS	EC1 PLUS	EC1
Performance	Hydrophobicity	●	●●	●●
	Defoaming	–	●●	–
	Adhesion to difficult surfaces	●●	●●	●●●
Applications (EN 1504-3)	Non-structural repair	●●●	●●	●
	Structural repair	●	●●	●●●
Benefits		Excellent workability for formulations with high RDP content combined with good adhesion and flexibility.	Good defoaming, improved workability, and very good adhesion. Suitable for other applications.	Fast redispersibility, particularly suited for applications which require short mixing time. Excellent adhesion to various substrates, including carbon mesh combined with high saponification resistance.

Specialty powder additives

Products		ELOTEX® SEAL81	ELOTEX® SEAL200	ELOTEX® ERA100
Characteristics	Chemical base	Silane	Silane	Modified natural rosin
	Functionality	Hydrophobicity	Hydrophobicity	Anti-efflorescence
Performance	Hydrophobicity	●●	●●●	–
	Anti-efflorescence	●	●●	●●●
Applications (EN 1504-3)	Non-structural repair	●●●	●●	●●●
	Structural repair	●●	●●●	●
Benefits		Excellent water repellency, long term durability combined with very good wetting and mixing properties.	Superior water repellency and long term durability combined with very good wetting and mixing properties.	Efficient against primary efflorescence, very good wetting and mixing properties.

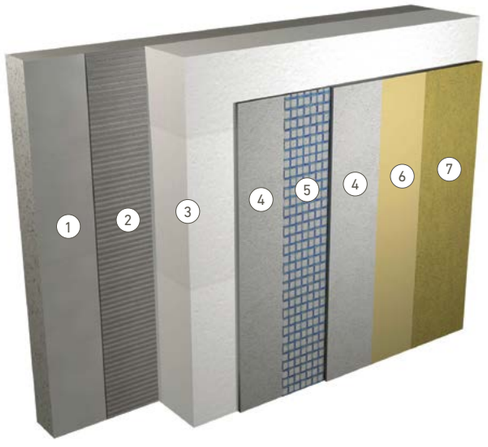
External thermal insulation composite systems

ELOTEX® redispersible polymer powders, specialty powder additives and Celvolit® dispersions are essential for creating high quality and long lasting External thermal insulation composite systems (ETICS), bridging and enhancing performance of prefabricated components. With the help of our polymer technologies, formulated adhesives can achieve excellent bonding strength between different construction layers, along with improved flexibility and impact resistance. As a result, sturdy and enduring building facades with high degree of structural integrity can be obtained.

ETICS are used to substantially raise the energy efficiency of many buildings and have been credited for reducing heating and cooling costs by as much as 50% or more for many decades. To obtain the required thermal insulation performance and weather-resistance, it is essential to use premium polymer technologies and solutions to construct high quality ETICS.

Celanese provides many polymer binders and additive solutions to formulate multiple layers within ETICS, including adhesives, embedding mortars, primers as well as decorative finishing coats.

In cases when hail resistance is required for ETICS, ELOTEX® FX2380 is highly recommended due to its unique workability at elevated polymer loading. On the other hand, when high degree of water resistance is needed, ELOTEX® HD2040 would be our first choice due to its ability to increase hydrophobicity of many formulas.



1 concrete substrate, 2 adhesive mortar, 3 insulation board,
4 base coat (embedding mortar), 5 reinforcement mesh, 6 primer, 7 topcoat

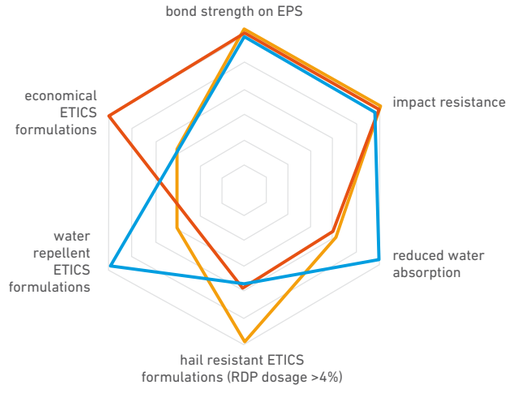
Benefits

- Enhanced adhesion between insulation boards to wall and mortar, especially boards made of expanded or extruded polystyrene
- High flexibility and impact resistance
- Increased crack resistance
- Reduced water absorption for base coats with ELOTEX® HD2040
- Improved weathering resistance for topcoats formulated with Celvolit® dispersions
- Very good durability
- Improved workability at high polymer loading with ELOTEX® FX2380
- Low VOC values – *EMICODE® EC1 PLUS suitability

Typical applications

- Adhesive mortars
- Embedding mortars (base coats)
- Primers with Celvolit® dispersions
- Renders (topcoats)

ELOTEX® RDP for ETICS



●●● = excellent ●● = very good ● = good
●●● = highly recommended ●● = recommended ● = suitable

Redispersible polymer powders

Products		ELOTEX® FX2320	ELOTEX® FX2380	ELOTEX® HD2040
Characteristics	Chemical base	VA/E	VA/E	VA/E
	MFFT (°C), approx.	0	0	0
	Type	Flexible	Flexible	Flexible
	Stabilization	PVOH	PVOH	PVOH
	Eco-friendly *EMICODE®	EC1 PLUS	EC1 PLUS	EC1 PLUS
Performance (ETAG 004)	Hydrophobicity	-	-	●●
	Adhesion after dry storage (23 °C)	●●●	●●●	●●●
	Adhesion after water immersion	●●	●●	●●
	Impact resistance	●●●	●●●	●●●
	Hail impact resistance (RDP >4%)	●●	●●●	●●
Applications (ETAG 004)	Adhesive mortars	●●●	●●	●●
	Embedding mortars	●●●	●●●	●●●
Benefits		Excellent workability, adhesion and very good impact resistance on polystyrene substrates. Suitable for other applications.	Specially designed for ETICS mortars based on high RDP dosage providing excellent workability combined with good adhesion, and improved impact resistance on polystyrene substrates.	Specially designed for hydrophobic ETICS mortars featuring good water repellency and reduced water absorption combined with good adhesion and impact resistance on insulation boards (e.g. polystyrene substrates).

Specialty powder additives

Products		ELOTEX® PAD3
Characteristics	Chemical base	Formulated compound
	Functionality	Polystyrene adhesion promoter
Performance	Flexibility	●
	Adhesion to polystyrene	●●●
	Impact resistance	●
Applications	Adhesive mortars with EPS	●●●
	Embedding mortars	–
Benefits		Outstanding adhesion to polystyrene substrates (EPS, grey EPS, XPS) after dry and wet storage, highly effective at low dosage and easy to handle.

Dispersions

Products		Celvolit® LDM 1869	Celvolit® LDM 1265	Celvolit® LDM 7718
Characteristics	Chemical base	VA/E/A	VA/E/VC/A	A
	MFFT (°C), approx.	1	5	8
	Tg (°C), approx.	13	10	19
	Solids content (%)	52–54	51–53	47–49
	pH value	4.0–6.0	5.0–6.0	8.0–9.0
	Brookfield viscosity (25 °C) (mPa·s)	500–2500	1500–3500	1000–5000
	Stabilization	Surfactants/PVOH	Surfactants/CD	Surfactants
Performance	Hydrophobicty	●●	●●●	●●●
	Colour retention for tinted renders	●●●	●●●	●●●
	Colour retention for white renders	●●	●	●●●
	Fire retarding properties	●●●	●●●	●●
Applications	Adhesive mortars	●●●	●●●	–
	Embedding mortars	●●●	●●●	–
	Primers	●●●	●●●	●●●
	Topcoats (renders)	●●●	●●●	●●●
Benefits		VAE-Inclusion technology leads to low dirt pick-up, excellent color retention and outstanding burning behavior.	Allround binder with excellent color retention and excellent burning behavior.	Increased adhesion and water resistance combined with excellent color retention in combination with organic pigments.

Cement & lime-based renders

ELOTEX® redispersible polymer powders, in combination with ELOTEX® specialty powder additives, are ideal choices for boosting the performance and durability of cement & lime-based renders. Many performance upgrades can be obtained, including improved adhesion and flexibility, increased stability of finished surfaces, as well as enhanced waterproofing capabilities for both interior and exterior walls.

Building elements are covered with rendering mortars for mechanical and weathering protection as well as decoration. Celanese provides many polymer and additive solutions to satisfy a wide variety of project requirements.

For example, in addition to improving bond strength on various substrates, ELOTEX® HD2040 can also enhance hydrophobicity and provide excellent water resistance. For applications on vertical surfaces where sag resistance is required, our thixotropic grade ELOTEX® ST2750 imparts a smooth and creamy mortar consistency with excellent anti-sag performance. Lastly, for economical formulations, ELOTEX® MP2100 would be an excellent choice for very good all-around performance.

Regarding our ELOTEX® specialty powder additives portfolio, products such as ELOTEX® SEAL81 contribute to improved hydrophobicity and water repellency. When a higher degree of efflorescence resistance is needed, ELOTEX® ERA would be our first recommendation.

Benefits

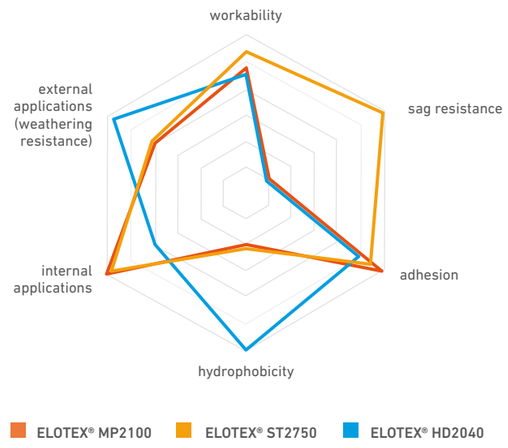
- Enhanced adhesion to various substrates
- Increased cohesive strength
- Improved flexibility and crack resistance
- Improved anti-sag properties with ELOTEX® ST2750
- Reduced water absorption with ELOTEX® HD2040 or ELOTEX® SEAL81
- Increased efflorescence resistance with ELOTEX® ERA additive line
- Improved durability
- Low VOC values – *EMICODE® EC1PLUS suitability

Typical applications

- Exterior and interior walls
- A broad range of substrates
- Base coat renders for surface levelling
- Finishing renders (texture, smooth (e.g. skim coat))
- Insulating and fire-proofing renders

ELOTEX® ERA100 for perfect surface appearance of coloured renders

ELOTEX® RDP for cement-lime-based renders



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Redispersible polymer powders

Products		ELOTEX® MP2100	ELOTEX® ST2750	ELOTEX® HD2040
Characteristics	Chemical base	VA/E	VA/E	VA/E
	MFFT (°C), appox.	3	3	0
	Type	Hard	Hard	Flexible
	Stabilization	PVOH	PVOH	PVOH
	Eco-friendly *EMICODE®	EC1PLUS	EC1PLUS	EC1PLUS
Performance	Adhesion	●●●	●●●	●●●
	Flexibility	●	●	●●●
	Sag resistance	–	●●	–
	Hydrophobicity	–	–	●●●
Applications	Interior leveling renders	●●●	●●●	●●
	Interior finishing renders / skim coats	●●●	●●●	●●
	Exterior leveling renders	●●	●●	●●●
	Exterior finishing renders / skim coats	●●	●●	●●●
Benefits		Very good workability and adhesion. Suitable for other applications.	Very good workability and anti-sag properties combined with good adhesion. Ideal for vertical and overhead applications.	Excellent water repellency, reduced water absorption coupled with good adhesion and flexibility.

Specialty powder additives

Products		ELOTEX® SEAL81	ELOTEX® ERA100	ELOTEX® ERA200
Characteristics	Chemical base	Silane	Modified natural rosin	Modified natural rosin
	Functionality	Hydrophobicity	Anti-efflorescence	Anti-efflorescence
Performance	Hydrophobicity	●●	–	●
	Anti-efflorescence	●	●●●	●●●
Applications	Interior leveling renders	●	●	●
	Interior finishing renders / skim coats	●	●	●
	Exterior leveling renders	●●	●●	●●
	Exterior finishing renders / skim coats	●●●	●●●	●●●
Benefits		Excellent water repellency, long term durability combined with very good wetting and mixing properties.	Efficient against primary efflorescence, very good wetting and mixing properties.	Efficient against primary and secondary efflorescence, reduced water permeability, very good wetting and mixing properties.

Joint fillers & plasters

ELOTEX® redispersible polymer powders, in combination with ELOTEX® specialty powder additives, can be used to improve the quality and performance of powder joint fillers & plasters by boosting adhesion, workability, flexibility as well as improving water resistance. On the other hand, our Vinamul® dispersions are broadly used to formulate ready mixed joint compound for drywall taping.

Gypsum-based products are preferred construction material for modern buildings due to their excellent thermal and sound insulation properties as well as their positive environmental impact. When formulated with ELOTEX® products, powder joint fillers and plasters exhibit high bonding strength on gypsum boards and paper wall joint tape, providing stable and flexible surfaces.

ELOTEX® AD0110 is an ideal polymer binder for interior gypsum based joint fillers and smoothing compounds. Compounds formulated with ELOTEX® AD0110 exhibit very good workability and adhesive properties, even when formulated to meet the most stringent VOC regulations.

ELOTEX® SEAL712 is our unique specialty additive designed to increase hydrophobicity and is available in powder form. It increases the water repellency of gypsum-based products efficiently and is typically used in wet interior areas.

Celanese dispersions have been our go-to liquid polymer binders for the industry to formulate ready-mix tape joint compounds for gypsum wallboards. They provide very good workability and sandability, excellent adhesion, as well as crack and shrinkage resistance.

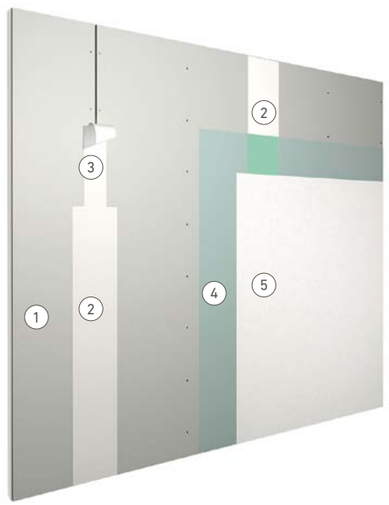
ELOTEX® SEAL712 for perfect water beading effect of gypsum based mortars

Benefits

- Increased adhesion and cohesion
- Enhanced flexibility and reduced crack formation
- Reduced water absorption and improved water repellency of gypsum-based products with ELOTEX® SEAL712

Typical applications

- Joint compounds for interior gypsum walls and ceilings boards
- Interior gypsum applications for wet areas (ELOTEX® SEAL712)



1 plasterboard, 2 joint filler, 3 paper tape, 4 primer, 5 plaster (smoothing compound = skim coat)

●●● = excellent ●● = very good ● = good
●●● = highly recommended ●● = recommended ● = suitable

Redispersible polymer powders

Products		ELOTEX® MP2100	ELOTEX® AD0110
Characteristics	Chemical base	VA/E	VA
	MFFT (°C), approx.	3	5
	Type	Hard	Hard
	Stabilization	PVOH	PVOH
	Eco-friendly *EMICODE®	EC1 PLUS	EC1 PLUS
Performance	Adhesion to paper tape	●●	●●●
	Adhesion & cohesion	●●	●●●
Applications	Plasters (gypsum or limestone-based)	●●●	●
	Smoothing compounds (gypsum or limestone-based)	●●	●●●
	Joint compounds (gypsum or limestone-based)	●●	●●●
Benefits		Excellent workability and adhesion. Suitable for other applications.	Very good workability and outstanding adhesion, especially after dry storage combined with very good abrasion resistance.

Specialty powder additives

Products		ELOTEX® SEAL712
Characteristics	Chemical base	Silane
	Functionality	Hydrophobicity
Performance	Hydrophobicity	●●●
	Thixotropicity	–
Applications	Plasters	●●●
	Smoothing compounds	●●●
	Joint fillers	●●●
Benefits		Designed for gypsum-based products only, excellent water repellent and pearl effects, long term durability combined with very good wetting and mixing properties.

Dispersions

Products		Vinamul® 3265
Characteristics	Chemical base	VA/E
	MFFT (°C), approx.	0
	Tg (°C), approx.	11
	Solids content (%)	54–56.5
	pH value	4.0–5.0
	Brookfield viscosity (25 °C) (m·Pas)	3000–4000
	Stabilization	PVOH
Performance	Adhesion to paper tape	●●●
	Adhesion and cohesion	●●●
Applications	Jointing & smoothing compounds	●●●
Benefits		Versatile dispersion, very good workability and excellent adhesion.

Polymer binder-based applications

(decorative finishes, joint fillers, powder paints and wallpaper adhesives)

ELOTEX® redispersible polymer powders and Vinamul® dispersions impart the necessary performance and durability of mineral binder-free dry mortars and ready-to-use, paste products where polymer binders are solely responsible for providing the critical adhesive properties. Thanks to our various polymer technologies, we provide solutions to meet many performance challenges. For examples, we have products designed for improving adhesion and cohesion, reducing cracking as well as increasing water resistance to suit a variety of end uses.

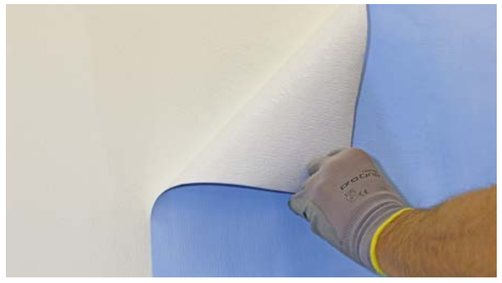
As construction trends continue to shift, ELOTEX® and Vinamul® products remain the smart polymer choice for your mineral binder-free formulations.

Benefits

- Improved workability
- Extended open time
- Better adhesion and cohesion
- Reduced cracking
- Improved wet-scrub resistance with ELOTEX® FL1210 and ELOTEX® TITAN8100
- Excellent film formation with ELOTEX® FL1210 and ELOTEX® TITAN8100
- Weathering resistance and UV stability with ELOTEX® TITAN8100
- Low VOC values – *EMICODE® EC1 PLUS suitability

Typical applications

- Interior and exterior decorative finishes (smooth (e.g. skim coat))
- Joint fillers (jointing compounds) for plasterboards
- Powder paint
- Wallpaper adhesives
- Wood adhesives



Wallpaper adhesive

Decorative finish

Powder paint

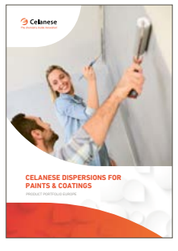
●●● = excellent ●● = very good ● = good
●●● = highly recommended ●● = recommended ● = suitable

Redispersible polymer powder

Products			ELOTEX® TITAN8100	ELOTEX® FL1210	ELOTEX® AD0110
Characteristics	Chemical base		A	VA/VV	VA
	MFFT (°C), approx.		0	5	5
	Type		Hard	Semi-flexible	Hard
	Stabilization		Acrylic copolymer	PVOH	PVOH
	Eco-friendly *EMICODE®		EC1	EC1 PLUS	EC1 PLUS
Performance	Adhesion		●●●	●●●	●●●
	Wet-scrub resistance		●●●	●●	-
	UV stability		●●●	●●	-
	Hydrophobicity		●	●	-
Applications	Exterior mineral binder-free paints & coatings	Decorative finishes, skim coats	●●●	●●	-
		Powder paints	●●●	●	-
	Interior mineral binder-free paints & coatings	Decorative finishes, skim coats	●	●●●	●●
		Jointing & smoothing compounds	●	●●	●●●
		Powder paints	●	●●●	●
	Interior adhesives	Wallpaper adhesives	-	-	●●●
		Wood adhesives	-	-	●●●
Benefits			Excellent water resistance, adhesion on various substrates, high saponification resistance, UV stability combined with fast redispersability, particularly suited for applications which require short mixing time.	Good defoaming, excellent adhesion, good water resistance and improved workability. Suitable for other applications.	Excellent workability and outstanding adhesion, especially after dry storage.

Dispersions

Products		Vinamul® 3265
Characteristics	Chemical base	VA/E
	MFFT (°C), approx.	0
	Tg (°C), approx.	11
	Solids content (%)	54–56.6
	pH value	4.0–5.0
	Brookfield viscosity (25 °C) (m·Pas)	3000–4000
	Stabilization	PVOH
Performance	Adhesion to paper tape	●●●
	Adhesion and cohesion	●●●
Applications	Jointing and smoothing compounds	●●●
Benefits		Versatile dispersion, very good workability and excellent adhesion.



The Celanese emulsion polymers business offers one of the broadest and most comprehensive portfolios of waterborne dispersions in the world. Read more about our Celanese products for the paint & coatings market in our dispersions product overview.

Product overview

Products	Characteristics					Recommended Applications																Products
						Flooring			Tile adhesives		Tile grouts	Waterpoofing membranes		ETICS	Concrete repair		Renders	Joint fillers		Finishes	
Redispersible polymer powders	Polymer base	Type	MFFT (°C) approx.	Features	Eco-friendly *EMICODE® EC1 PLUS suitability	SLC/screeds, mineral binder-based	Primer	adhesive (e.g.carpet)	cement-based	paste		rigid	flexible		non-structural	structural	cement-lime based	gypsum-based	limestone-based	polymer binder-based	Redispersible polymer powders
ELOTEX® **AD0110**	VA	Hard	5	Outstanding dry and paper adhesion														●	●		ELOTEX® **AD0110**
ELOTEX® **FL1210**	VA/VV	Semi-flexible	5	Good defoaming, good adhesion and wet scrub resistance											●	●				●	ELOTEX® **FL1210**
ELOTEX® **FL1900**	VA/VV	Hard	3	Excellent defoaming, levelling, superior peel strength and surfaces		●															ELOTEX® **FL1900**
ELOTEX® **FL2280**	VA/E	Hard	3	Good defoaming, levelling, adhesion, smooth and even surfaces		●															ELOTEX® **FL2280**
ELOTEX® **FL3210**	VA/E/VV	Hard	5	Excellent defoaming, levelling, adhesion and improved surfaces		●															ELOTEX® **FL3210**
ELOTEX® **FX1000**	VA/VV	Semi-flexible	5	Excellent workability, open time, wet adhesion and deformation					●												ELOTEX® **FX1000**
ELOTEX® **FX2320**	VA/E	Flexible	0	Excellent workability, adhesion and impact resistance										●	●						ELOTEX® **FX2320**
ELOTEX® **FX2380**	VA/E	Flexible	0	Excellent for hail resistant ETICS at higher RDP dosages										●							ELOTEX® **FX2380**
ELOTEX® **FX2630**	VA/E	Very flexible	0	Excellent workability, adhesion, and crack-bridging									●								ELOTEX® **FX2630**
ELOTEX® **FX3000**	VA/E/VV	Semi-flexible	5	Excellent workability, open time, wet adhesion and good deformation					●												ELOTEX® **FX3000**
ELOTEX® **FX3300**	VA/E/VV	Semi-flexible	5	Good anti-slip properties, good workability, adhesion and deformation					●												ELOTEX® **FX3300**
ELOTEX® **HD1500**	VA/VV	Semi-flexible	0	Good defoaming, improved water resistance and adhesion							●	●									ELOTEX® **HD1500**
ELOTEX® **HD2040**	VA/E	Flexible	0	Good workability, water repellence, adhesion and impact resistance								●		●			●				ELOTEX® **HD2040**
ELOTEX® **HD2000**	VA/E	Hard	3	Good workability, water repellence and adhesion							●										ELOTEX® **HD2000**
ELOTEX® **MP2100**	VA/E	Hard	3	Excellent workability and adhesion					●		●						●	●	●		ELOTEX® **MP2100**
ELOTEX® **ST2400**	VA/E	Hard	3	Slight anti-slip properties, good workability and adhesion					●												ELOTEX® **ST2400**
ELOTEX® **ST2750**	VA/E	Hard	3	Excellent sag resistance, workability and adhesion													●				ELOTEX® **ST2750**
ELOTEX® **TITAN8100**	A	Hard	0	Excellent adhesion on difficult substrates, very fast redispersibility												●				●	ELOTEX® **TITAN8100**

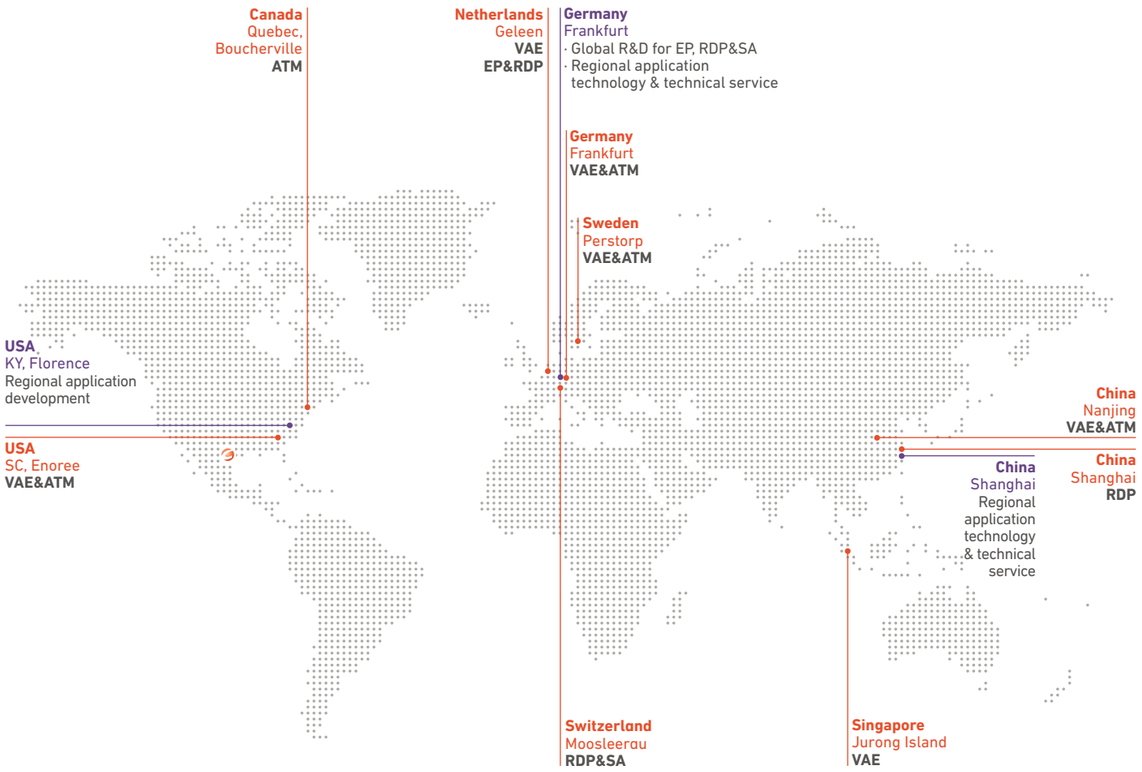
Specialty powder additives	Chemical base	Functionality																		Specialty powder additives
ELOTEX® **ERA100**	Modified natural rosin	Anti-efflorescence						●				●	●	●						ELOTEX® **ERA100**
ELOTEX® **ERA200**	Modified natural rosin	Anti-efflorescence						●						●						ELOTEX® **ERA200**
ELOTEX® **FLOWKIT53**	VA/E	Rheology and adhesion	●																	ELOTEX® **FLOWKIT53**
ELOTEX® **OTA100**	Formulated compound	Open time extention				●								●						ELOTEX® **OTA100**
ELOTEX® **OTA200**	Formulated compound	Open time extention	●			●														ELOTEX® **OTA200**
ELOTEX® **PAD3**	Formulated compound	Polystyrene adhesion promoter									●									ELOTEX® **PAD3**
ELOTEX® **SEAL200**	Silane	Hydrophobicity						●	●					●	●					ELOTEX® **SEAL200**
ELOTEX® **SEAL712**	Silane	Hydrophobicity															●			ELOTEX® **SEAL712**
ELOTEX® **SEAL81**	Silane	Hydrophobicity						●	●					●	●	●				ELOTEX® **SEAL81**

Dispersions	Polymer base	Tg (°C) approx.	MFFT (°C) approx.	Stabilization	Solids content (%)	Brookfield viscosity (mPa·s)	pH														Dispersions
Vinamul® **3265**	VA/E	11	0	PVOH	54–56.5	3000–4000	4.0–5.0													●	●	Vinamul® **3265**
Celvolit® **LDM 1265**	VA/E/VC/A	10	5	Surfa./CD	51–53	1500–3500	4.0–5.0							●								Celvolit® **LDM 1265**
Celvolit® **DM 1340**	VA/E/A	-11	0	Surfa./CD	64–66	1000–3000	3.0–5.0			●												Celvolit® **DM 1340**
Celvolit® **LDM 1365**	VA/E/A	-28	0	Surfa./PVOH	59–61	2000–10000	4.5–6.5			●												Celvolit® **LDM 1365**
Celvolit® **LDM 1869**	VA/E/A	13	1	Surfa./PVOH	52–54	500–2500	4.0–6.0							●								Celvolit® **LDM 1869**
Celvolit® **LDM 6482**	S/A	-7	0	Surfactants	56–58	1000–4000	7.0–9.0						●									Celvolit® **LDM 6482**
Celvolit® **LDM 6636**	S/A	20	13	Surfactants	49–51	50–300	8.0–9.0					●										Celvolit® **LDM 6636**
Celvolit® **LDM 7601**	S/A	-4	0	Surfactants	33–35	10–60	7.5–8.5		●													Celvolit® **LDM 7601**
Celvolit® **LDM 7718**	A	19	8	Surfactants	47–49	1000–5000	8.0–9.0							●								Celvolit® **LDM 7718**

Global reach

The global research and development center for ELOTEX® products and for Celanese dispersions is located in Frankfurt, Germany. The center closely cooperates with the other Celanese regional application development centers in Florence, Kentucky, USA and in Shanghai, China.

These regional facilities enable us to rapidly develop new products and assist customers in the region with their development projects. We have manufacturing plants and technical support in all major regions.



Celanese Headquarter, Dallas, Texas, USA
Technology sites
Production sites

ATM = Conventional (atmospheric)
VAE = High-pressure, vinyl acetate/ethylene
EP = Emulsion polymers
RDP = Redispersible polymer powders
SA = Specialty powder additives

Product testing and technical service

Understanding customer and industry needs

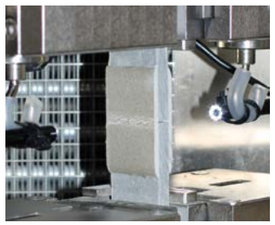
The Celanese technical team worldwide consistently strives to meet the needs of our customers, including their formulated construction products. Our application development team has many decades of experience and expertise in formulation development, testing and assessment of mortar systems. We are constantly updating our laboratory with modern equipment to aid us in designing and adapting our products to meet real-world application profiles and enable product testing according to the latest standards and norms.

Always a step ahead in innovation

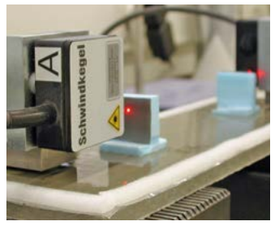
As a market leader, Celanese is continuously investing in development and improvement of new products and processes. We would be happy to share our latest advances with you and provide you with the right tools to support your new developments.

Tensile adhesion strength EN 12004
Tile adhesives

Transverse deformation EN 12004
Tile adhesives



Crack-bridging ability EN 14891
Flexible waterproofing membranes



Thin Layer Shrinkage System with laser sensors
Self-levelling flooring compounds

Abbreviations

A = Acrylate
CD = Cellulose ether derivatives
E = Ethylene
MFFT = Minimum film forming temperature
PVOH = Polyvinyl alcohol
RDP = Redispersible polymer powder
S/A = Styrene-acrylic
SLC = Self-levelling compound
Tg = Glass transition temperature
VA = Vinyl acetate
VAE = Vinyl acetate ethylene
VC = Vinyl chloride
VOC = Volatile organic compound
VV = Vinyl versatate

** Only full members of the GEV may label their products with EMICODE® seal after fulfilling certain conditions and testing. EMICODE® EC2, EC1 and EC1^{PLUS} are registered trademarks of GEV. Note that the VOC emissions of the final dry mortar are impacted by formulation ingredients other than only redispersible polymer powders.

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The chemistry inside innovation™

REDISPERSIBLE POLYMER POWDERS
SPECIALTY POWDER ADDITIVES
EMULSION POLYMERS

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