



ELOTEX[®] and Bermocoll[®] for modern dry mix mortars

Product Portfolio – North America



Nouryon

Experience the difference

The rapid pace of change in today's construction industry requires the continuous development of new high-performance products to improve the quality and sustainability of building materials. The way we build is changing and new standards are emerging to meet the improvements demanded in our places of work as well as in our homes.

The need for better-performing, more sustainable and more cost-effective construction chemicals to meet these new challenges has never been greater. In North America, where the construction industry is raising standards year after year, the demand for better performing construction chemicals is especially obvious.

We at Nouryon's Construction business relish the opportunity to take on these challenges and enable our customers to address the new needs emerging in the construction industry. At Nouryon, as a global specialty chemicals leader, we produce essential chemicals and are experts in highly demanding chemistry.

Following the pioneering efforts in 1968 in the production of redispersible polymer powder, ELOTEX® products established themselves as the benchmarks in several drymix mortar applications and still today remain at the forefront of innovation. Similarly, Bermocoll® cellulose ethers, with more than 50 years of history in the construction industry, now form

a complementary technology to our redispersible polymer powder range. The Performance Additives technology package for drymix mortar industry is rounded with the ELOTEX® specialty additives range, which includes a range of unique products, bringing additional performance to the most demanding drymix mortar applications.

With our unrivalled product portfolio, strong R&D capabilities, technical support expertise and global manufacturing presence, we offer our customers formulation expertise, experience and product competence to ensure their continued success in a very demanding and ever-changing industry.

How to find the perfect fit

Our product portfolio comprises three main technologies: Bermocoll® cellulose ethers, ELOTEX® redispersible polymer powders, and ELOTEX® specialty additives. Whether used as standalone additives or in combination with one another, our products offer a powerful toolkit for the development of drymix mortar formulations for the construction industry.

Bermocoll® Cellulose Ethers

More than 50 years of production experience enable us to offer an optimized portfolio of Bermocoll® cellulose ethers to the construction industry. Our Bermocoll® products are based on cellulose, a natural polymer derived from wood or plant fibers and we offer the following main cellulose ether types, Ethyl Hydroxyethyl Cellulose (EHEC) and Methyl Ethyl Hydroxyethyl Cellulose (MEHEC). Both product groups are obtained through a chemical substitution process known as etherification.

Bermocoll® cellulose ethers are unique in the industry and have been developed to impart a range of properties in dry mix mortars. Depending on the end-user requirements, Bermocoll® products provide:

- Increased water retention
- Improved consistency to make thin layer products workable
- Controlled rheology to provide sag resistance
- Reduced segregation of different formulation ingredients
- Improved adhesion on porous substrates
- Optimized air pore stability for improved workability
- Improved adhesion to polystyrene boards

In addition to the conventional uses of Bermocoll® cellulose ethers in dry mix mortar formulations, our products are also recommended as rheology modifiers for ready-to-use dispersion based pasty systems.

ELOTEX® redispersible polymer powders have a decisive influence on cement, lime or gypsum based finished drymix mortar products. Our free-flowing redispersible polymer powders are obtained through spray-drying of optimized latex dispersions.

Our expertise in the development and production of special latex dispersions allows us to supply an unprecedented range of products specifically developed to bring defined improvements to a wide range of mortars:

- Excellent mortar workability
- Increased adhesion to porous and non-porous substrates
- Increased adhesion to plywood
- Reduced rigidity and improved flexibility
- Increased abrasion resistance
- Reduced water absorption
- Ensured long term durability

Our ELOTEX® product range also offers distinct benefits in formulating products to very specific requirements such as very low emissions of volatile organic compounds (VOC), and, if required, assist formulators in meeting demanding air quality standards for indoor use (e.g. LEED).

ELOTEX® Specialty Additives

The ELOTEX® specialty additives range comprises a number of differing technologies ranging from formulated additives such as our ELOTEX® CAST to encapsulated silane technology used in the development of our ELOTEX® SEAL products.

In applications ranging from flooring, grouts over external thermal insulation composite systems to plastering and renders, our customers can experience unique improvements brought about by the specialty additives products, such as:

- Improved water resistance
- Increased hydrophobicity
- Superior water repellency
- Reduced efflorescence
- Unparalleled stain resistance
- Improved workability
- Excellent leveling

Flooring – Quality from the bottom up

ELOTEX® and Bermocoll® products support the rheology and workability of the full range of flooring formulations improving ease of on-site application and ensuring exceptionally smooth, defect-free surfaces.

In the finished flooring, our products enhance all of the key physical characteristics required of modern flooring. Continuous improvement of our product range ensures that our products enable you to reach lowest VOC emission levels expected in the industry.

Typical applications

- Industrial and residential flooring
- Cement based self-leveling compounds and screeds
- Gypsum based floorings
- Pumpable and hand-applied compounds

Benefits

- Increased leveling, surface aesthetics and abrasion resistance
- Improved flexural and tensile bond strength on various substrates
- Reduced formulation complexity
- Option of using different qualities of raw materials
- Stabilization against bleeding and segregation
- Improved defoaming properties
- Achieving very low VOC emissions from the final formulated product



Redispersible Polymer Powders

●●● = excellent ●● = very good ● = good

Products	ELOTEX®	FL2211	FL2280	FL3210	MP2100
Technical Information	Chemical base MFFT (°C)	VA/E 3	VA/E 3	VA/VV/E 5	VA/E 3
Physical Properties	Flowability	●●	●●	●●●	●●
	Surface appearance	●●	●●●	●●	●●
	Robustness in formulation	●	●●	●●●	●
	Abrasion resistance	●●	●●	●●●	●
	Defoaming	●●●	●●●	●	–
Applications	Cement based SLC with casein	●●	●●	●●●	●●
	Cement based SLC with synthetic plasticizers	●●●	●●●	●●●	●●●
	Gypsum based SLC and SLS	●●	●●	●●●	●●
	Pumpable SLC and SLS	●●	●●●	●●	●●
Comments		High quality defoamed RPP with good flow and leveling effects.	Newly developed high quality defoamed RPP with extremely low VOC emissions (formaldehyde free), excellent leveling properties and improved surface appearance.	High quality slightly defoamed RPP providing excellent flow effects, very good surface appearance, and good compatibility with other formulation ingredients.	Non-defoamed RPP with good leveling effects and universal properties for leveling compounds.

Specialty Additives

Products	ELOTEX®	CAST710	FLOWKIT53
Technical Information	Functionality	Rheology enhancer	Plasticizing polymer
Physical Properties	Stabilization	●●	–
	Flowability	●●	●●●
	Surface appearance	●●	●●●
	Defoaming	●●●	●●●
Applications	Cement based SLC	–	●●●
	Gypsum based SLC	●●	–
	Gypsum based SLS	●●●	–
Comments		New and unique product based on innovative technology specifically designed for gypsum (beta, FGD) based SLS.	Combination of ELOTEX® technologies in a single, unique product for levelling compounds with improved compatibility to different cement qualities.

Cellulose Ethers

Products	Bermocoll®	E 230 X
Technical Information	Chemical base	EHEC
	Viscosity (2%, mPas)	300
	Modification	no
	Particle size	extra fine powder
Physical Properties	Stabilization	●●●
	Water retention	●
Applications	Cement based SLC with casein	●●●
	Cement based SLC with synthetic plasticizers	●●●
	Gypsum based SLC and SLS	●●
Comments		Non-modified, low viscosity cellulose ether, designed to improve the consistency, stability and water retention of flooring compounds.

SLC = Self-leveling compound | SLS = Self-leveling screed

Tiling – Flexible connections



Cementitious tile adhesives formulated with ELOTEX® and Bermocoll® products are easy to work with, environmentally friendly, easy to apply and offer flexible, long lasting performance of tiled areas.

ELOTEX® and Bermocoll® products for tile adhesives deliver high adhesive strength, high sag resistance, increased freeze-thaw stability and very good working properties.

Typical applications

- Standard quality tile adhesives according to ANSI A118.4 – A118.11
- High quality tile adhesives ANSI A118.15
- High quality flexible adhesives suitable for outdoor applications

- Floor and wall tiling
- All different formats (large and small) of porous and non-porous tiles
- Mineral and non-mineral substrates

Benefits

- Excellent adhesive bond strength on different substrates, including plywood
- Increased plastic behavior and flexibility
- Increased cohesive force
- High wet strength values
- Excellent open time and sag resistance

Redispersible Polymer Powders

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Products	ELOTEX®	MP2701	FX2311	HD2301	FX5600	ST2750
Technical Information	Chemical base MFFT (°C)	VA/E 3	VA/E 5	VA/E 4	VA/VV/E/Ac 0	VA/E 3
Physical Properties	Thixotropy	–	–	–	–	●●●●
	Open time	●	●	●	●●	●●●
	Flexibility	●	●	●	●●●	●
	Wet adhesion	●	●	●●	●●●	●
Applications	ANSI A118.4 – A118.11	●●	●●●●	●●●●	●●●●	●●
	ANSI A118.15	●	●	●●	●●●	●
	Outdoor application	–	–	●●	●●●	●
Comments		High quality RPP with multipurpose properties suitable for standard tile adhesives.	High quality RPP with multipurpose properties for standard tile adhesives and efficient at lower dosages.	Hydrophobic RPP for standard tile adhesives which require enhanced water resistance.	High quality, flexible RPP with excellent workability and water resistance, recommended for high quality tile adhesives, large tiles and outdoor applications at high RPP dosage.	High quality RPP for standard tile adhesives which require sag resistance. Excellent for use with large format tiles.

Cellulose Ethers

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Products	Bermocoll®	MT 500	M 30	ML 31	M 70	ML 71
Technical Information	Chemical base	MEHEC	MEHEC	MEHEC	MEHEC	MEHEC
	Viscosity (2%, mPas)	4'500	18'000	20'000	42'000	42'500
	Modification	very strong	no	low	no	low
Physical Properties	Particle size	fine powder	fine powder	fine powder	fine powder	fine powder
	Open time	●●●●	●●	●●	●●	●●
	Water retention	●●●●	●●	●●	●●●●	●●●●
Applications	Slip resistance	●●●●	●	●●	●●	●●●●
	ANSI A118.1	●●●●	●●	●●●●	●●●●	●●●●
	ANSI A118.4 – A118.11	●●●●	●●	●●●●	●●●●	●●●●
	ANSI A118.15	●●●●	●●	●●●●	●●●●	●●●●
Comments	Outdoor application	●	●	●	●	●
		Strongly modified, low viscosity cellulose ether specifically designed for ANSI A118.1 HTE, ANSI A118.4 HTE, and ANSI A118.15 HTE cement based tile adhesives. Improves water retention, sag resistance, workability, open time and especially wet strength properties of formulations.	Non-modified, medium viscosity cellulose ether designed for improving water retention, consistency, workability and strength of cement based tile adhesives.	Modified, medium viscosity cellulose ether designed for improving water retention, consistency, workability and strength of cement based tile adhesives.	Non modified, high viscosity cellulose ether designed for improving water retention, consistency, workability and strength of cement based tile adhesive.	Modified, high viscosity cellulose ether designed for improving water retention, consistency, workability, and strength of cement based tile adhesives.

Grouts – Sealing the gaps

Tile grouts incorporating ELOTEX® and Bermocoll® products, seal the gaps between tiles and compensate for any unevenness. In addition, tile joints perform an architectural and aesthetic function with their pattern and coloring.

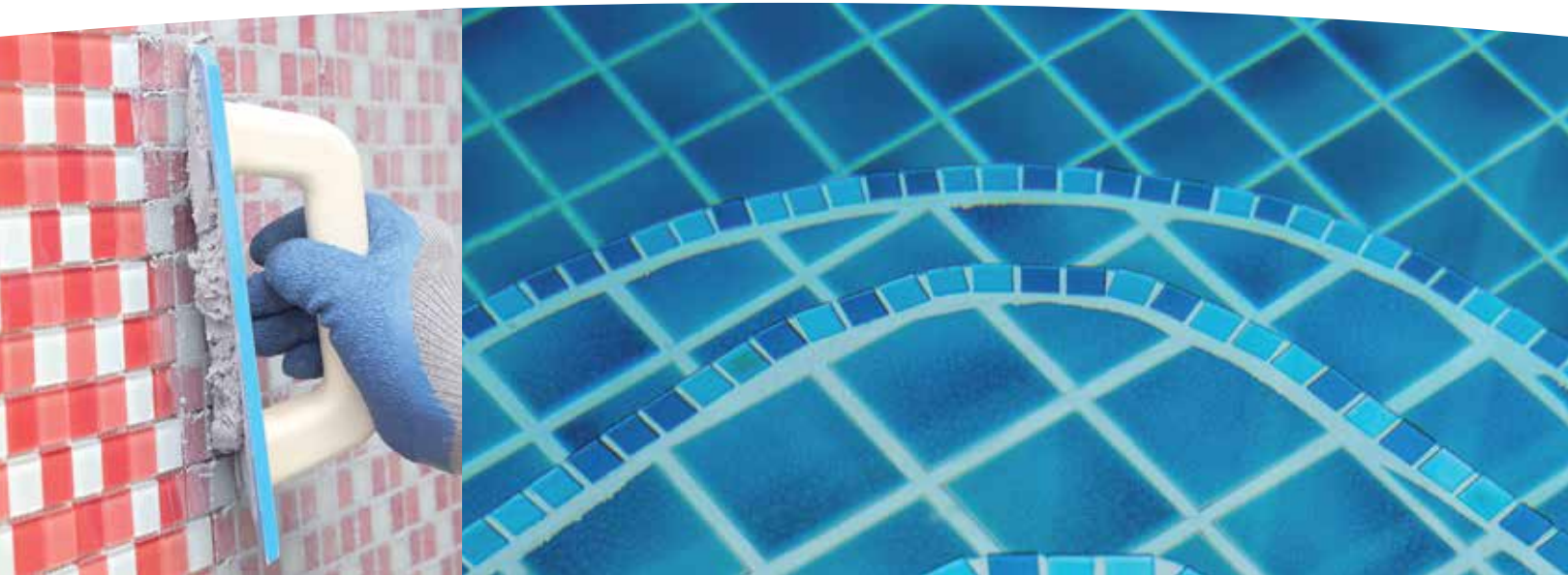
We offer the broadest range of products to improve properties across the complete range of grouting mortars. Our products have been designed to improve work-ability, filling performance and sag resistance of wall grouts.

Typical applications

- Flooring and wall grouting
- Cement based grouts ANSI A118.7
- All different format porous and non-porous tiles
- Indoor and outdoor applications


Benefits

- Improved adhesion to tile edges
- Increased flexibility and deformability
- Excellent hydrophobic and water repellent properties
- Reduced efflorescence
- Improved water retention, consistency and workability



Redispersible Polymer Powders

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Products	ELOTEX®	MP2701 	HD2301	HD1501	HD4500
Technical Information	Chemical base MFFT (°C)	VA/E 3	VA/E 4	VA/VV 0	VA/VV/Ac 0
Physical Properties	Hydrophobicity Water uptake Defoaming	– – –	●● ●● –	●● ●● ●	●●● ●●● –
Applications	Cement based grouts ANSI A118.7	●	●●	●●	●●●
Comments		High quality RPP with multipurpose properties for standard cement based grouts. Use in combination with ELOTEX® SEAL products is recommended.	Hydrophobic RPP for cement based grouts requiring very good long term water resistance.	Hydrophobic RPP for cement based grouts requiring very good long term water resistance.	High quality hydrophobic RPP designed for cement based grouts requiring very good long term water resistance.

Specialty Additives

Products	ELOTEX®	SEAL81	SEAL200	ERA100	ERA200
Technical Information	Functionality	Hydrophobic	Hydrophobic	Anti-efflorescence	Anti-efflorescence
Physical Properties	Hydrophobicity Anti-efflorescence	●● –	●●● –	– ●●●	● ●●●
Applications	Cement based grouts ANSI A118.7	●●	●●●	●●●	●●
Comments		Encapsulated silane in powder form with excellent miscibility and long storage time, provides water repellent properties to cement based grouts.	Highly active encapsulated silane in powder form with excellent miscibility and long storage time, provides strong hydrophobicity to cement based grouts.	Resin in powder form reduces primary efflorescence of hydraulic setting grout mixes.	Resin in powder form reduces primary and secondary efflorescence of hydraulic setting grout mixes which additionally provides water repellency.

Cellulose Ethers

Products	Bermocoll®	E 230 X	M 10
Technical Information	Chemical base Viscosity (2%, mPas) Modification Particle size	EHEC 300 no extra fine powder	MEHEC 7500 no fine powder
Physical Properties	Air entrainment* Water retention	●● ●	● ●●
Applications	Cement based grouts ANSI A118.7	●●●	●●
Comments		Non-modified, very low viscosity cellulose ether, designed to improve the consistency, stability and water retention of cement based grouts.	Non-modified, low viscosity cellulose ether, designed to improve the consistency, stability and water retention of cement based grouts.

* EHEC entrains more air compared to MEHEC

EIFS – Sustainability through energy savings

The use of ELOTEX® and Bermocoll® products is essential for the workability, water retention, open time and general physical properties of the EIFS (Exterior Insulation and Finish System) mortars.

Typical applications

- Adhesive mortars
- Base coat
- Top coat and latex top coat

Benefits

- Increased adhesion, especially on EPS, XPS and MW boards
- Increased flexibility and impact resistance
- Increased cohesion
- Increased surface abrasion resistance
- Avoids crack formation
- Increased long-term performance and durability



Redispersible Polymer Powders

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Products	ELOTEX®	FX2320	FX2380	HD2040
Technical Information	Chemical base MFFT (°C)	VA/E 0	VA/E 0	VA/E 0
Physical Properties	Flexibility Dry adhesion Wet adhesion Impact resistance	●●● ●●● ●● ●●●	●●● ●●● ●● ●●●	●●● ●●● ●●● ●●●
Applications	Adhesive coat Combo mortar Base coat	●●● ●●● ●●●	●●● ●●● ●●●	●●● ●●● ●●●
Comments		Flexible RPP for the modification of cement based mortar and plaster systems, specially designed for External Insulation and Finish Systems.	High quality flexible RPP for the modification of cement based mortar and plaster systems. Specially designed for superior EIFS Mortars for spray machine application and extended mesh embedding time.	High quality flexible RPP for the modification of cement based mortar and plaster systems, specially designed for EIFS which require a high degree of hydrophobicity.

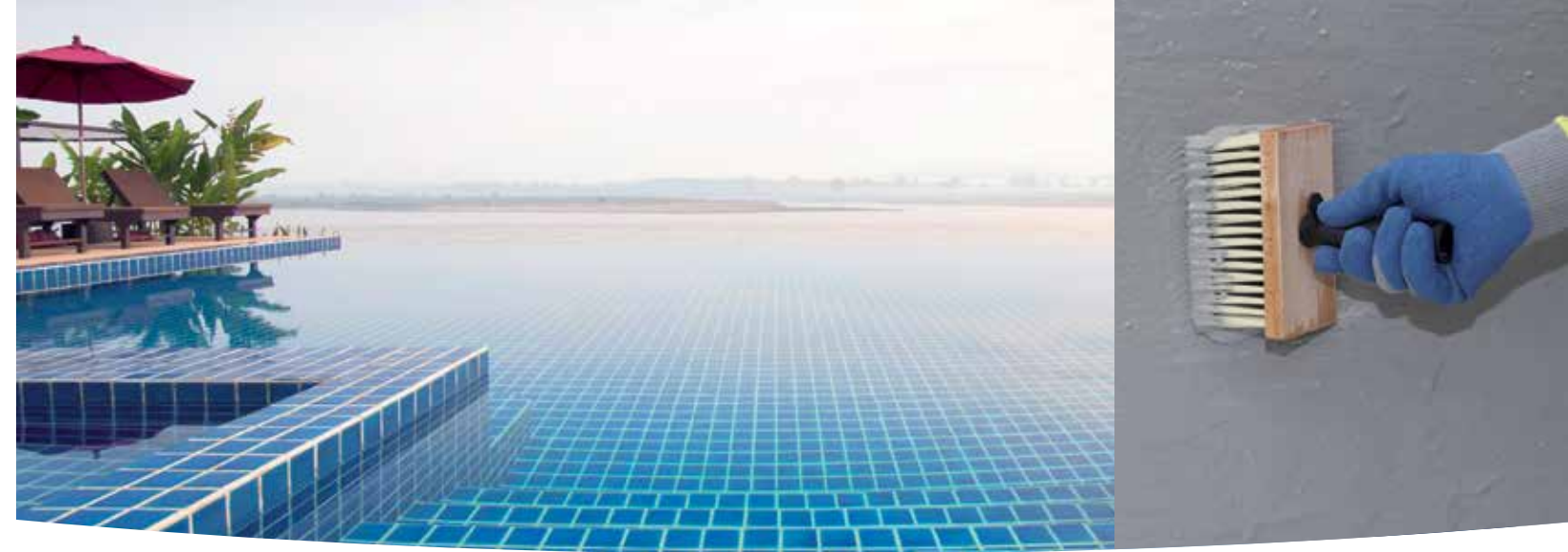
Specialty Additives

Products	Bermocoll®	PAD 2
Technical Information	Functionality	Adhesion promoter
Physical Properties	Adhesion on EPS	●●●
Applications	Adhesive coat Base coat	●●● -
Comments		Specially formulated polystyrene adhesion enhancing additive especially recommended for cement based EIFS adhesives mortars which are used to adhere all kind of polystyrene boards to the building surface.

Cellulose Ethers (Adhesive/Base coat)

Products	Bermocoll®	M 10	E 351 X
Technical Information	Chemical base Viscosity (2%, mPas) Modification Particle size	MEHEC 7500 no fine powder	EHEC 4'000 no extra fine powder
Physical Properties	Open time Water retention	●● ●	●● ●
Applications	Adhesive coat Base coat	●●● ●●●	●●● ●●●
Comments		Non-modified, low viscosity cellulose ether designed for improving the consistency, workability, and water retention of cement based EIFS products.	Non-modified, low viscosity cellulose ether designed for improving the consistency, workability, and water retention of cement based EIFS products.

Waterproofing – Keeping water at bay



Highly flexible cementitious waterproofing membrane modified with ELOTEX® redispersible polymer powders are ideal for use on substrates prone to shrinkage, cracking, movements, stresses or vibrations.

ELOTEX® redispersible polymer powders facilitate the application of flexible waterproofing membranes on substrates which are difficult to coat. The resulting polymer-modified membrane is resistant against chloride and sulphate ions, CO₂ and other aggressive media.

Typical applications

- Waterproofing of flat roofs
- Under-tile waterproofing and waterproofing of interior wet areas (showers, baths, kitchens)
- Waterproofing of interior and exterior basement walls
- Sealing of sewage installations

- Waterproofing of swimming pool and Spa areas
- Waterproofing of water tanks
- Surface protection of structural concrete and general building protection

Benefits

- Excellent adhesion on various substrates
- Provide resistance to water and pressing water
- Improved flexibility and crack bridging performance
- Improved abrasion resistance
- Enhance long term weathering characteristics

Redispersible Polymer Powders

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Products	ELOTEX®	Flexible		Rigid		
		FX2322	FLEX8300	HD1501	HD2301	TITAN8100
Technical Information	Chemical base MFFT (°C)	V/AE 0	Ac 0	V/A/V 0	V/AE 4	Ac 0
Physical Properties	Hydrophobicity	–	●	●●	●●	●
	Flexibility	●●●	●●●	–	–	–
	Crack bridging	●●●	●●	–	–	–
Applications	Robustness to variation of water content	●●●	●	●	●●	●
	Rigid membranes	–	–	●●●	●●●	●●●
Comments	Flexible membranes	●●●	●●●	–	–	–
		Highly flexible high quality RPP particularly well suited for use in flexible sealing compounds, ensuring superior crack bridging properties.	Highly flexible high quality RPP with excellent saponification resistance particularly suited for use in flexible sealing compounds.	High quality hydrophobic RPP for rigid water proofing slurries, grouts and plasters with very good long term water resistance.	High quality hydrophobic RPP for rigid water proofing slurries, grouts and plasters with very good long term water resistance.	High quality RPP for rigid waterproofing slurries with good long term water resistance and saponification resistance.

Specialty Additives

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Products	ELOTEX®	SEAL81	SEAL200
Technical Information	Functionality	Hydrophobic	Hydrophobic
Physical Properties	Hydrophobicity	●●	●●●
Applications	Rigid membranes Flexible membranes	●● ●●	●●● ●●●
Comments		Encapsulated silane in powder form with excellent miscibility and provides water repellent properties to cement based waterproofing systems.	Highly active encapsulated silane in powder form with excellent miscibility and provides strong hydrophobicity to cement based waterproofing systems.

Cellulose Ethers

Products	Bermocoll®	M 10
Technical Information	Chemical base Viscosity (2%, mPas) Modification Particle Size	MEHEC 7500 no fine powder
Physical Properties	Workability Water retention	●● ●
Applications	Rigid membranes Flexible membranes	●● ●●
Comments		Non-modified, low viscosity cellulose ether designed for improving the consistency, workability, and water retention of cement based waterproofing systems.

Repair – As good as new



Heavy traffic, climatic conditions, and pollution are all factors challenging building structures on a daily basis. Sooner or later, renovation is necessary in order to maintain structural integrity.

ELOTEX® and Bermocoll® products improve repair mortar rheology, workability and physical properties. Polymer-modified mortars have increased CO₂ impermeability and resistance to many other types of pollutants.

Typical applications



- Structural and non-structural concrete repair

Benefits

- High early strength
- Increased adhesive strength to concrete substrates
- Reduced shrinkage and cracking
- Increased hydrophobicity and reduced water absorption
- Optimized flexural and tensile strengths
- Increased plasticity and flexibility
- Improved water retention

Redispersible Polymer Powders

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Products	ELOTEX®	MP2100 	FL2211 	FX7000	TITAN8100
Technical Information	Chemical base MFFT (°C)	VA/E 3	VA/E 3	St/Ac 0	Ac 0
Physical Properties	Hydrophobicity	–	–	●	●
	Defoaming properties	–	●●●	●	–
	Flexibility	●	●	●	●
	Adhesion to difficult substrates	●	●	●●●	●●●
Applications	Non structural repair	●●	●●	●	●
	Structural repair	●	●	●●●	●●●
Comments		Non-defoamed RPP with good flow and leveling effects, and universal properties for concrete repair mortars.	High quality defoamed RPP with good flow and leveling effects. Also for high strength applications like concrete repair mortars.	High quality RPP which is highly resistant to saponification and specially suited for concrete repair mortars encountering reinforcing bars.	High quality RPP for concrete repair mortars which produces low shrinkage, high strength, and has good long term water resistance.

Gypsum Joint Fillers – Smoothly filled



Gypsum joint fillers are generally used between gypsum boards in combination with paper strip as reinforcement to give a strong and even surface for further processing with paint, wall paper or finishing plaster.

Gypsum-based filler materials are used to fill the gaps between board divisions and for smoothing and filling irregularities in walls and ceilings. Whether you need to ensure adhesion and cohesion or improve the workability properties, the ELOTEX® and Bermocoll® product ranges have been designed to help you meet all requirements. In addition, with use of our ELOTEX® SEAL product, increased life time and durability of gypsum-based joint fillers is guaranteed.

Benefits


- Water repellency and bulk hydrophobicity
- Increased durability of gypsum building materials
- Increased adhesion and cohesion
- Increased dry surface abrasion resistance
- Increased water retention and improved workability

Typical applications

- Gypsum based trowelling and jointing compounds
- Ready to Use Joint Filler (Latex)
- Interior applications where extended humidity resistance or water resistance of gypsum building products is required

Redispersible Polymer Powders

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Products	ELOTEX®	AD0100	FX2311 
Technical Information	Chemical base MFFT (°C)	VA 18	VA/E 5
Applications	Joint compounds	●●●●	●●●●
Comments		Hard, high quality RPP with excellent adhesion and cohesion properties for powder based products.	Hard, high quality RPP with excellent adhesion and cohesion properties for powder based products.

Specialty Additives

Products	ELOTEX®	ELOSET542	SEAL712
Technical Information	Functionality	Thickener	Hydrophobicity
Physical Properties	Hydrophobicity	–	●●●●
Applications	Joint compounds	●	●
Comments		Starch ether for reduced tackiness and improved structure viscosity and workability for a smoother and easier application, enables the application in thick layers.	Encapsulated silane in powder form with excellent mixing and workability properties. Long term storage stability and unique water repellent properties in gypsum based joint fillers.

Cellulose Ethers

Products	Bermocoll®	CCA 328	M 30 Q	E 481 FQ	EBM 5500
Technical Information	Chemical base Viscosity (2%, mPas) Modification Particle size	EHEC 33'500 strong fine powder	MEHEC 18'000 no fine powder	EHEC 30'000 no fine powder	MEHEC 33'000 no fine powder
Applications	Joint compounds	●●●●	●●●●	●●●●	●●●●
Comments		Highly modified high viscosity cellulose ether for improving water retention, consistency and stability for latex based products.	Medium viscosity cellulose ether for improving water retention, consistency and stability for latex based products.	High viscosity cellulose ether for improving water retention, consistency and stability for latex based products.	High viscosity cellulose ether with enhanced enzyme resistance for improving water retention, consistency and stability for latex based products.

Cement and lime based renders – Durability inside and outside

Cement or cement lime renders are used for exterior and wet interior applications because of their higher strength and durability.

ELOTEX® and Bermocoll® products are used to improve the workability, adhesion, flexibility and surface resistance of such renders. Additional properties like hydrophobicity, thixotropy as well as reduced efflorescence can also be achieved by the use of our specialty additives.

Benefits

- Improved adhesion to various substrates
- Increased water repellency and hydrophobicity
- Improved water retention, consistency and stability
- Reduced primary and secondary efflorescence


Typical applications

- Interior and exterior base coat renders
- Interior and exterior finishing renders and Skim coats



Redispersible Polymer Powders

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Products	ELOTEX®	MP2100 	HD2301	HD4500
Technical Information	Chemical base MFFT (°C)	VA/E 3	VA/E 4	VA/W/Ac 0
Physical Properties	Flexibility Hydrophobicity	● -	● ●●	● ●●●
Applications	Interior base coat plaster Interior finishing skim coat Exterior base coat plaster Exterior finishing skim coat	●●● ●●● ● ●	● ● ●● ●●	● ● ●●● ●●●
Comments		Medium hard RPP with multipurpose properties suitable for all kinds of cement based plasters.	High quality, hydrophobic RPP for rigid water proofing slurries, standard grouts and plasters with very good long term water resistance.	High quality flexible RPP with very good water repellency and resistance for use in exterior cement based plasters.

Specialty Additives

Products	ELOTEX®	SEAL81	ERA100	ERA200
Technical Information	Functionality	Hydrophobicity	Anti-efflorescence	Anti-efflorescence
Physical Properties	Hydrophobicity Anti-efflorescence	●●● ●	- ●●●	● ●●●
Applications	Interior base coat plaster Interior finishing skim coat Exterior base coat plaster Exterior finishing skim coat	- - ●●● ●●●	● ●●● ●● ●●●	● ●●● ●● ●●●
Comments		Encapsulated silane in powder form with excellent mixing and workability properties, long term storage stability and unique water repellent properties in cement based mortars.	Resin in powder form reduces primary and secondary efflorescence of hydraulic setting plasters.	Resin in powder form reduces primary and secondary efflorescence of hydraulic setting render mixes which additionally provides water repellency.

Cellulose Ethers

Products	Bermocoll®	M 10	ML 11	M 30	ML 31
Technical Information	Chemical base Viscosity (2%, mPas) Modification Particle size	MEHEC 7'500 no fine powder	MEHEC 9'500 low fine powder	MEHEC 18'000 no fine powder	MEHEC 20'000 low fine powder
Physical Properties	Water retention Sag resistance	● -	● ●●	●● ●	●● ●●●
Applications	Interior base coat plaster Interior finishing skim coat Exterior base coat plaster Exterior finishing skim coat	●●● ●● ●●● ●●	●● ●● ●● ●●	●● ●●● ●● ●●●	●● ●●● ●● ●●●
Comments		Non-modified, low viscosity cellulose ether for improving the consistency, workability, and water retention of cement based mortars.	Modified, low viscosity cellulose ether for improving water retention, consistency, workability and strength of cement based mortars.	Non-modified, medium viscosity cellulose ether for improving water retention, consistency, workability and strength of cement based mortars.	Modified, medium viscosity cellulose ether for improving water retention, consistency, workability and strength of cement based mortars.

Polymer Binder Systems – bright and sustainable



Cement free or low cement containing polymer plasters are used as replacements for ready-to-use pasty systems or for applications where high flexibility and scrub resistance is needed.

ELOTEX® and Bermocoll® products are used to not only to provide a sustainability advantage of eliminating cement from dry mortar formulations but also ensures high water resistance and weathering (UV) stability of finishing coats and to

improve wet scrub resistance of wall preparation skim coats.

Typical applications

- Cement free interior and exterior decorative wall finishes


- Cement free base coats and textured decorative coats for External Thermal Insulation Composite Systems (ETICS)
- Polymer based skim coats
- Polymer plaster, jointing, smoothing and leveling compounds
- Wall paper adhesives

Benefits

- Excellent rheology and workability of the mortar even at low temperature and higher humidity
- Extended open time
- Excellent dry adhesion
- No risk of efflorescence
- Lower CO₂ footprint due to no, or very low cement content

Redispersible Polymer Powders

●●●● = excellent ●● = very good ● = good

Products	ELOTEX®	CF9000	FX7000	MP2701 
Technical Information	Chemical base MFFT (°C)	Ac 0	St/Ac 0	VA 5
Physical Properties	Flexibility	●●●●	●●	—
	Wet scrub abrasion resistance	●●●●	●●	●
	UV stability	●●●●	●●	●●
	Adhesion on different substrates	●●●●	●●●●	●●●●
	Hydrophobicity	●●●●	●	●
Applications	Exterior cement free decorative	●●●●	●●	—
	Exterior powder paints	●●●●	●●	—
	Interior powder paints	●●●●	●	—
	Interior jointing and smoothing compound	—	●●	●●●●
	Interior powder paint	●	●●●●	●
Comments		High flexible, high quality RPP with excellent saponification resistance and UV stability for manufacturing dry mixtures for exterior applications.	Highly defoamed high quality RPP with excellent polymer film formation and reduced water absorption. Very good for interior surface finishes on dry mixtures basis.	Environmental friendly high quality RPP with excellent workability and dry adhesion for interior surface finishes on dry mixtures basis.

Cellulose Ethers

Products	Bermocoll®	EHM Extra	EBM 5500	EBM 10000
Technical Information	Chemical base	MEHEC	MEHEC	MEHEC
	Viscosity (2%, mPas)	350	5'750	12'500
	Modification	no	no	no
	Particle size	fine powder	fine powder	fine powder
Physical Properties	Anti-sagging	●	●●	●●●●
	Water retention	●	●●	●●●●
Applications	Exterior cement free decorative finishing coats	●●●●	●●	●●
	Exterior cement free skim coats	●●●●	●●	●●
	Exterior powder paint	●●●●	●●	●●
	Interior jointing and smoothing compound	●	●●	●●●●
	Interior powder paint	●	●●●●	●●
Comments		An associative cellulose that improves high shear viscosity, roller spatter, flow and leveling with enhanced enzyme resistance and improved consistency and stability.	High viscosity cellulose ether with enhanced enzyme resistance and improved water retention, consistency and stability.	Highest viscosity cellulose ether with enhanced enzyme resistance and improved water retention, consistency and stability.

Product testing and technical service

Always a step ahead in innovation

As a market leader, Nouryon is continuously investing in basic research in order to better understand the fundamental mechanisms controlling the development of the polymer – cement matrix and its impact on the physical product performance. We would be happy to share our latest advances with you and provide you with the right tools to support your new developments.

Our technical centers worldwide are strategically positioned and have the full range of equipment required to undertake testing in accordance to current of specification. Our technical staff have many decades of experience in the area of formulation development, testing and assessment of mortar systems in all applications. Nouryon offers its customers (dry mortar manufacturers) a first-class technical service, including advice and laboratory work in developing and optimising appropriate products, whilst always taking the regional raw material situations and requirement profiles into consideration.



Welcome to sustainability

Our commitment to doing more with less

When people ask us what **sustainability** means to Nouryon, we tell them that our success depends on it. We know only too well that our future hinges on our ability to **do radically more while using less. More innovation**, less traditional solutions; **more renewable energy and materials**, less fossil-based; **more value chain focus**, less introverted thinking.



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Nouryon

We are a global specialty chemicals leader. Markets worldwide rely on our essential chemistry in the manufacture of everyday products such as paper, plastics, building materials, food, pharmaceuticals, and personal care items. Building on our nearly 400-year history, the dedication of our 10,000 employees, and our shared commitment to business growth, strong financial performance, safety, sustainability, and innovation, we have established a world-class business and built strong partnerships with our customers. We operate in over 80 countries around the world and our portfolio of industry-leading brands includes Eka, Bermocoll, Elotex, Dissolvine, and Berol.

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