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***BUILDING AND  
CONSTRUCTION PRODUCTS***



## **25 years of polymer redispersible powders production and expertise**

We started in 1991 to produce RDPs, operating two spray drying units based on two different technologies. This experience gained us the opportunity to build a new state-of-the-art spray drying unit with the best technologies available on the market and optimized internally to have the best performances for energy saves and material waste saves.

## **16 different grades of polymer redispersible powders**

We started with the standard materials for tile adhesives and through the years we have seized the opportunity to provide the markets with products meeting the new challenges, from low VOC products for EC1 plus compliant polymers to highly hydrophobic powders or to very flexible products. This full range allows our customers to address their needs in the construction industry.



## **1<sup>st</sup> producer of vinyl-acrylic full range of polymer redispersible powders**

Volatility is always lurking. Raw materials are not always available, even for the big companies. In 2006, during the crisis of Veova, with a very low availability of this monomer, we were the only producer to supply our customers with the standard amount of redispersible powders. How did we do this? We developed in a very short time three new redispersible powders based on vinyl acrylic technology, which were shortly approved by our customers. We took this challenge as a way to improve our portfolio with a completely new set of products.



FAR polymers' portfolio for the construction industry include three main technologies: redispersible powders for 1-k mortars, water dispersions for 2-K admixtures and a thickener in a powdery form. FAR Polymers' redispersible powders (Neolith) have been recognized as high quality polymers for a long time.

Our extensive expertise in the manufacturing and development of polymer powders allow us to provide our customers with the best solution to their needs, bringing them definite advantages:

- Excellent workability;
- Improved open time;
- Increased adhesion to both porous and non porous substrates;
- Enhanced water resistance;
- Abrasion resistance;
- Long term durability.

Our manufacturing expertise allows us to provide also the grades with a much reduced content of organic volatiles, meeting the restrictive limits of Eimicode EC1 and EC1-plus for the final mortars.

FAR polymers is also well known for its capability to satisfy specific needs by providing tailored solutions to our customers, from pre-formulated powders to rheological-modified polymers.



## TILE ADHESIVES

**Neolith P** redispersible powders increase the adhesion strength in all the ageing conditions according to EN 12004, improve the open time and the workability of the premix admixtures.

Typical applications include standard C1 and C2 tile adhesives as well as improved C2 S1 and S2 adhesives: our range also include specific grades such as high sag resistance P3300 and P4400TX and very low VOC grade P3000G.



Neolith	P6700	P6400	P6800	P4400	P4400TX
Chemical base	Va-Acr	Va-Acr	VA-Acr	VA-VV	Va-VV
MFFT (°C)	8	4	13	6	6
VOC					
Tixotropy	-	-	-	-	■ ■ ■
Open time	■ ■	■ ■	■ ■	■ ■	■ ■ ■
Flexibility	■	■ ■	■	■ ■	■ ■
Wet adhesion	■ ■	■ ■	■ ■ ■	■ ■	■ ■
Standard Quality C1 - C2	■ ■	■ ■	■ ■	■ ■ ■	■ ■ ■
High quality	-	-	■	■	■

Neolith	P3000N	P3000G	P3300	P3500	P6000	P7200
Chemical base	VA-VV	VA-VV	VA-VV	VA-VV	VA-VV-Acr	VA-VV
MFFT (°C)	14	14	5	5	0	0
VOC		EC1 plus				
Tixotropy	-	-	■ ■ ■	-	-	-
Open time	■ ■	■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■
Flexibility	■	■	■ ■	■ ■	■ ■ ■	■ ■ ■
Wet adhesion	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■
Standard Quality C1 - C2	■ ■ ■	■ ■ ■	-	-	-	-
High quality	■ ■	■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■

For standard applications, Neolith P4400 (also in a sag resistance version P4400TX) represent a milestone in the building industry, thanks to its general purpose application. Neolith P6700 is the choice for an optimization of price/quality ratio; Neolith P6400 for improving the flexibility and Neolith P6800 for increased adhesion.

For high quality applications, Neolith P3000N is another milestone in the field, together with the EC1 plus version P3000G. Neolith P3500 and Neolith P3300 offer high adhesion and open time for tile registration; Neolith P6000 and Neolith P7200 give the highest flexibility.

■ ■ ■ ■ Excellent   ■ ■ ■ Very good   ■ ■ Good   ■ Fair

## TILE GROUTS AND RENDERS

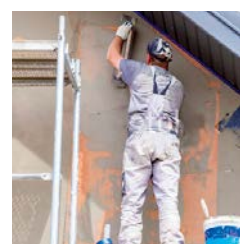
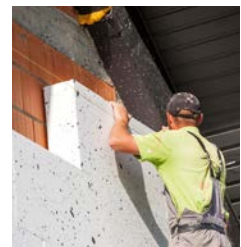
Tile grouts perform two different functions, aesthetic effect and durability. They can work as architectural complements to tiles and contribute decisively to the durability of floors and wall coverings, leveling out the unevennesses between tiles. Renders and plasters also perform both aesthetically and functionally, delivering good finish appearances and protecting against weathering agents and leaving the wall to breathe. Neolith P redispersible powders deliver the required set of properties: adhesion to the tile edges, abrasion resistance, hydrophobicity, low water uptake, flexibility, sag resistance for vertical applications, good workability. Compliance to EN 13888 can be reached with the use of our RDPs:



Neolith	P6400	P4400	P3500	P7200	P8800	P8980
Chemical base	Va-Acr	VA-VV	VA-VV	VA-VV	VA-VV Acr	VA-VV Acr
MFFT (°C)	4	6	14	3	0	0
VOC						
Hydrophobicity	-	-	-	■	■■■	■■■■
Flexibility	■■	■■	■■	■■■	■■■	■■■■
Adhesion	■■	■■■	■■■	■■	■■	■■
Standard Quality CG1	■■	■■■	■■■	-	-	-
High quality CG2	-	-	-	■■	■■■	■■■

## EXTERIOR INSULATION AND FINISHING SYSTEMS

Exterior insulation is the best way to save energy in houses. By applying the proper panels of insulating materials, energy costs can be reduced for more than 50%. Neolith redispersible powders play an important role in the application of insulating systems. They bring the necessary adhesion properties between the panels and the substrates and deliver flexibility and water resistance.



Neolith	P6400	P4400	P6000
Chemical base	VA-Acr	VA-VV	VA-VV-Acr
MFFT	0	6	0
VOC			
Hydrophobicity	-	-	■
Flexibility	■■■	■■	■■■
Adhesion	■■	■■■	■■■
Impact resistance	■■■	■■■	■■

■■■■ Excellent   ■■■ Very good   ■■ Good   ■ Fair

## WATERPROFING MEMBRANES

Our Policril 590 series have set a new standard for this application in the 2-k admixtures. They have ever been copied but never reached till nowadays.

Our redispersible powders provide an optimal solution also for the 1-k premix mortars. They deliver excellent water impermeability as well as very good adhesion to different substrates. According to the final application - flexible high load RDP or non flexible lower load RDP - you can have the right choice.



Neolith	P8900	P8980	P8800
Chemical base	VA-VV-Acr	VA-VV-Acr	VA-VV-Acr
MFFT	0	0	0
VOC			
Hydrophobicity	■	■■■■	■■■
Flexibility	■■■	■■■	■
Adhesion	■■■	■■■	■■■
Crack bridging	■■■	■■■	■

## FLOORING

Self leveling compounds are used whenever flat and smooth floors are required. Drymix admixtures formulated with Neolith P5000 show very good flow characteristics, are durable and can be shortly put in use after application. Neolith P5000 combines both the advantages of a good wear resistance product and the flexibility to apply the mortar on large areas.



Neolith	P5000
Chemical base	Va-VV
MFFT	5
Flowability	■■■
Abrasion resist.	■■■
Defoaming	■■
Ease of formulation	■■■

■■■■ Excellent   ■■■ Very good   ■■ Good   ■ Fair

## GYPSUM JOINT FILLER

Gypsum joint filler are used to fill the gaps between boards and to fill irregularities and holes in the walls. Neolith P 1550 and Neolith P6400 provide excellent adhesions to the substrates and to paper enhancing the workability of gypsum based compositions.

	P1550G	P6400
<b>Chemical base</b>	VA	VA-Acr
<b>MFFT</b>	5	0
<b>Adhesion</b>	■ ■ ■	■ ■ ■



## 2-k WATER PROOFING MEMBRANES

Our Policril range of products have provided the market with the best performances in the last 15 years. Whenever the issue is to provide flexibility, water impermeability and durability, Policril 590, Policril 592, Policril 594, Policril 596 and Policril AC02 offer the best solutions.

Cement compatibility is assured in almost all ratios of formulation, thus providing a large latitude for formulators.

With Policril 590 and Policril 592 crack bridging is assured down to -20°C temperatures. All the grades deliver very good adhesion properties to different substrates and to iron.



Policril	590	592	594	596	AC02
<b>Chemical base</b>	Acr	St-Acr	St-Acr	St-Acr	St-Acr
<b>Tg</b>	-34	-28	-14	-12	2
<b>Adhesion</b>	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■

■ ■ ■ ■ Excellent ■ ■ ■ Very good ■ ■ Good ■ Fair

## POLYMER POWDERS FOR BUILDING

### Characteristics

Type	Neolith	Protective colloid	Dry content (%)	Anticaking agent (% ash 1000°C)	Tg (°C)	MFFT (°C)	Loose bulk density (g/l)	Adhesion	Workability
Vinyl acetate homopolymers	NP50	PVOH	99	<10		18	440	■■■	■■
	P1550G	PVOH	99	<2	28	0	520	■■■	■■■
Vinyl acetate/ Veova copolymers	P2000	PVOH	99	10.5	20	4	470	■■	■■■
	P3000G	PVOH	99	11.5	28	14	525	■■■	■■■
	P3000N	PVOH	99	11.5	28	14	525	■■■	■■■
	P3300	PVOH	99	11.5	16	5	460	■■■	■■■
	P3500	PVOH	99	10	16	5	460	■■■	■■■
	P4400	PVOH	99	10.5	22	6	500	■■■	■■■
	P4400T	PVOH	99	11	22	6	525	■■■	■■■
	P5000	PVOH	98.8	10	16	5	520	■■■	■■■
	P7200	PVOH	99	11.5	10	3	460	■■	■■■
	Vinyl acetate/ acrylate copolymers	P6300T	PVOH	99	11.5	18	0	550	■■
P6400		PVOH	99	11.5	15	4	500	■■	■■■
P6400T		PVOH	99	11.5	15	4	500	■■	■■■
P6700		PVOH	99	11.5	24	8	525	■■	■■■
P6700T		PVOH	99	11	24	8	525	■■	■■■
P6800		PVOH	99	11.5	32	13	550	■■■	■■■
Vinyl acetate/Veova/ acrylate copolymers	P6000	PVOH	99	11.5	7	0	485	■■	■■■
	P8800	PVOH	99	11.5	0	0	460	■■■	■■■
	P8900	PVOH	99	11.5	-16	0	460	■■■	■■■
	P8980	PVOH	99	12	-16	0	425	■■■	■■■
Acrylate copolymers	PK	PVOH	97.5	10		0	350		

■■■■ Excellent   ■■■ Very good   ■■ Good   ■ Fair





## Applications

Flexibility	Water Resistance	Tixotropy	C1 Tile Adhesives	C2 Tile Adhesives	Renders	External Insulation	Plasters and Joints	Self-levelling	Other
			■				■■		
■			■				■■■		Binder for Gypsum
■■	■■		■■	■■	■■	■■■	■■		
■■	■■		■■■	■■■	■■	■■	■■		Low VOC Binder
■■	■■		■■■	■■■	■■	■■	■■		
■■	■■	■■■	■■■	■■■	■■	■■	■■		
■■	■■		■■■	■■■	■■	■■	■■		
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■■■	■■■		■■	■■■	■■■	■■■	■■■		
■■■	■■■■		■	■■■	■■■	■■■	■■■		
■■■	■■■						■■■		1 K Flexible membranes
■■■	■■■■				■■■		■■■		1 K Flexible membranes
		■■■■							Thixotropic additive







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