



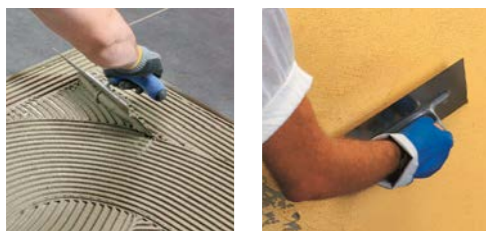
*BUILDING AND  
CONSTRUCTION PRODUCTS*

### 35 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.

### 18 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 Ecode 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 and very low VOC grade.



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

Neolith	P3000N	P3000G	P3800	P6000	P7200
Chemical base	VA-VV	VA-VV	VA-VV	VA-VV-Acr	VA-VV
MFFT (°C)	14	14	5	0	0
VOC		EC1 plus			
Tixotropy	-	-	-	-	-
Open time	■ ■	■ ■	■ ■ ■	■ ■ ■	■ ■ ■
Flexibility	■	■	■ ■ ■ ■	■ ■ ■	■ ■ ■
Wet adhesion	■ ■ ■	■ ■ ■	■ ■ ■ ■	■ ■ ■	■ ■ ■
Standard Quality C1 - C2	■ ■ ■	■ ■ ■	-	-	-
High quality C1 - C2	■ ■	■ ■	■ ■ ■ ■	■ ■ ■	■ ■ ■

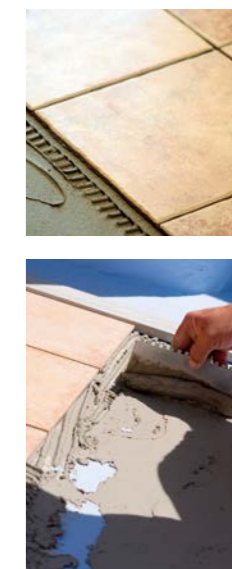
For standard applications, Neolith P4400 represent a milestone in the building industry, thanks to its general purpose application. Neolith P6700 is the choice for an optimization of price/quality ratio; Neolith P6400 for improving the flexibility and Neolith P6800 for increased adhesion.

For high quality applications, Neolith P3000N is another milestone in the field, together with the EC1 plus version P3000G. Neolith P3800 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:



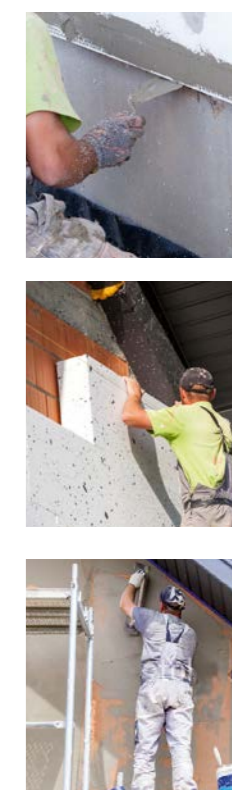
Neolith	P6400	P4400	P3800	P7200	P8800
Chemical base	Va-Acr	VA-VV	VA-VV	VA-VV	VA-VV Acr
MFFT (°C)	4	6	14	3	0
VOC					
Hydrophobicity	-	-	-	■	■ ■ ■
Flexibility	■ ■	■ ■	■ ■ ■	■ ■ ■	■ ■ ■
Adhesion	■ ■	■ ■ ■	■ ■ ■	■ ■	■ ■
Standard Quality CG1	■ ■	■ ■ ■	■ ■ ■	-	-
High quality CG2	-	-	■ ■	■ ■	■ ■ ■

## 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	3800
Chemical base	VA-Acr	VA-VV	VA-VV-Acr	VA-VV
MFFT	0	6	0	5
VOC				
Hydrophobicity			■	■ ■
Flexibility	■ ■ ■	■ ■	■ ■ ■	■ ■ ■
Adhesion	■ ■	■ ■ ■	■ ■ ■	■ ■ ■
Impact resistance	■ ■ ■	■ ■	■ ■	■ ■ ■

■ ■ ■ ■ Excellent ■ ■ Very good ■ Good



### 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	P8923	P8800
Chemical base	VA-VV-Acr	VA-VV-Acr
MFFT	0	0
VOC		
Hydrophobicity	■	■■■
Flexibility	■■■	■
Adhesion	■■■	■■■
Crack bridging	■■■	■



### FLOORING SELF-LEVELLING

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

### 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
Chemical base	VA	VA-Acr
MFFT	5	0
Adhesion	■■■	■■■



### 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	HAR	596	AC02
Chemical base	Acr	St-Acr	St-Acr	St-Acr	St-Acr
Tg	-34	-28	-14	-12	2
Adhesion	■■■	■■■	■■■	■■■	■■■

■■■ Excellent ■■ Very good ■ Good



## DISPERSIONS

TYPE	STABILISATION	SOLID CONTENT (%)	BROOKFIELD viscosity RVT mPa.s	Ph	Particle size		MFFT (C°)	Tg(c°)	Product Name
Ac	S	45 - 47	< 1000	7 - 8	0,14	low PVC wall paints	19	25	<b>Policril 202</b>
Ac	S	45 - 47	1500 - 3000	7 - 8	0,12	high scrub resistance for exterior paints	12	15	<b>Policril 207FF</b>
Ac	S	45 - 47	1500 - 3000	7 - 8	0,12	high scrub resistance for exterior paints	12		<b>Policril 207FFS</b>
Ac	S	49 - 51	< 500	7 - 8,5	0,24	low VOC styrene acrylic paints	1	2	<b>Policril 279</b>
Ac	S	49 - 51	< 1000	7 - 8,5	0,095	acrylic enamels	31	65	<b>Policril 514</b>
Ac	S	49 - 51	< 1000	7 - 8	0,14	low VOC paints (interior and exterior) - excellent UV resistance	0	10	<b>Policril 546</b>
Ac	S	49 - 51	< 1000	7 - 8	0,09	high water resistance exterior finishes	18	21	<b>Policril 547</b>
Ac	S	48 - 50	< 1000	7 - 8,5	0,095	high water resistance low MFFT	<10	24	<b>Policril 549</b>
Ac	S	53 - 55	< 1000	5,5 - 7,5	0,18	high flexibility 2-K cement admixtures (C2 S2 adhesive)	0	-10	<b>Policril 564</b>
Ac	S	33 - 35	< 500	7,5 - 9	50	primer for porous substrates (gypsum and cement)	4	8	<b>Policril 581</b>
Ac	S	53,5 - 55,5	< 1000	5,5 - 7,5	0,2	flexible 2-k cement membranes improved workability	0	-30	<b>Policril 590</b>
Ac	S	29 - 32	< 50	2,1 - 4	0,09	medium thickening agent ASE	=	69	<b>Policril A</b>
Ac	S	29 - 32	<50	2,1 - 4	0,09	medium thickening agent ASE	=	69	<b>Policril AD</b>
Ac	S	29 - 32	max 50	2,1 - 4	0,09	high thickening agent HASE	=	41	<b>Policril AK</b>
Ac	S	39 - 41	< 1000	7 - 8	0,075	acrylic enamels; improved rheology binder	40	=	<b>Policril PG11</b>
SA	S	49 - 51	6000 - 12000	7 - 8	0,11	flexible 1-k membranes - elastomeric paints	1	3	<b>Policril 223</b>
SA	S	49 - 51	6000 - 12000	7 - 8	0,11	high water resistance flexible 1-k membranes - elastomeric paints	1	3	<b>Policril 2235</b>
SA	S	49 - 51	500 - 1500	7 - 8	0,11	low VOC paints (interior and exterior) - excellent storage life	4	=	<b>Policril 278</b>
SA	S	49 - 51	2000 - 7000	7 - 8	0,09	high scrub resistance paints	22	25	<b>Policril 280</b>
SA	S	49 - 51	5000 - 10000	7 - 8	0,1	flexible 1-k membranes; elastomeric paints	3	5	<b>Policril 282</b>
SA	S	49 - 51	5000 - 10000	7 - 8	0,12	high water resistance paints	12	23	<b>Policril 290</b>
SA	S	49 - 51	3000 - 8000	7 - 8	0,11	high water resistance flexible 1-k membrane; elastomeric paints	0	-8	<b>Policril 574</b>
SA	S	39 - 41	< 150	6 - 7	0,08	non-film-forming primer for wood substrates	61	52	<b>Policril 575</b>
SA	S	53,5 - 55,5	< 1000	5,5 - 7,5	0,2	flexible 2-k cement membranes improved alkali resistance	0	-28	<b>Policril 592</b>
SA	S	49 - 51	< 500	5,5 - 7,5	0,2	flexible 2-k cement membranes	0	=	<b>Policril 596</b>
SA	S	53 - 55	< 1000	5 - 7	0,25	flexible binder for mortar modification	2	3	<b>Policril AC02</b>
SA	S	49 - 51	< 1000	7 - 8,5	0,15	hard binder for microcement	20	30	<b>Policril AC26</b>
SA	S	49 - 51	< 1000	5,5 - 7,5	0,2	flexible 2-k cement membranes	0	-8	<b>Policril HAR</b>
SA	S	48 - 50	< 2000	7 - 8	0,11	hard primer for difficult-to-bond substrates	10	=	<b>Policril Supergrip</b>
So Po	S	43 - 45	600 - 1200	6 - 8	=	dispersing agent for pigments and fillers			<b>Policril DS02</b>
VA	Cel/S	54 - 56	2000 - 6000	5	0,4	homopolymer for interior applications	4	15	<b>Neolith 125F</b>
VA	Cel/S	49 - 51	3000 - 6500	4 - 6	0,25	high scrub resistance for interior paints	5	18	<b>Neolith 203VRIG</b>
VA	PVOH	53 - 55	1000 - 3000	4 - 6	0,6	high hydrolysis resistance for lime-based compounds	5	10	<b>Neolith 9100L</b>
VA	PVOH	41 - 44	6000 - 13000	4 - 6	2,2	high hydrolysis resistance- low VOC for lime-based compounds	1	6	<b>Neolith 9450L</b>
VA/M	Cel/S	54 - 56	3000 - 8000	4 - 5	0,5	copolymer for interior paints	8	21	<b>Neolith 230BM5</b>
VA/M	Cel	54 - 57	7000 - 15000	3,5 - 4,5	0,5	adhesive for difficult to bond substrates	0	10	<b>Neolith 240BM</b>
VA/VV	Cel/S	49 - 51	3000 - 6500	4 - 6	0,25	high scrub resistance for interior paints	4	18	<b>Neolith 203VR</b>

■VA = Vinylacetate    ■Cel= cellulose  
 ■M = maleic            ■S= Surfactant  
 ■Ac = Acrylate  
 ■SA = Stiroil Acrylic  
 ■VV=Veova  
 ■SoPo= Sodic Polyacrylate

all FAR products are APEO free

**POLYMER POWDERS FOR BUILDING**

"C1 Tile Adhesives"	"C2 Tile Adhesives"	Flexibility S1	Flexibility S2	ETICS	gypsum/plaster	lime	"Self-levelling"	Joints	1K flexible membrane	Neolith	Tg (°C)	MFFT (°C)	CH2O free	EC1+	Type	"Protective colloid"	Dry content (%)	"Anticaking agent (% ash 1000°C)"	"Loose bulk density (g/l)"	Tixotropy
■					■■■					P1550G	28	0	✓		VA	PVOH	99	<2	520	
■■■	■■■	■■	■■	■■■						P3000G	28	14	✓	✓	VA/W	PVOH	99	11.5	525	
■■■	■■■	■■■	■■■	■■■			■			P3800	16	5	✓	✓	VA/W	PVOH	99	10	460	
■■■	■■■	■	■	■■■	■		■■			P4400	22	6	✓		VA/W	PVOH	99	10.5	500	
■■■	■■■			■■■						P4400T	22	6	✓		VA/W	PVOH	99	11	525	
■■	■■						■■■			P5000	16	5	✓		VA/W	PVOH	98.8	10	520	
■■	■■■					■■■				P7200	10	3	✓		VA/W	PVOH	99	11.5	460	
■■■	■■■	■		■■■						P6400	15	4	✓		VA/Ac	PVOH	99	11.5	500	
■■■	■■■									P6400T	15	4	✓		VA/Ac	PVOH	99	11.5	500	
■■■	■■	■								P6700	24	8	✓		VA/Ac	PVOH	99	11.5	525	
■■■	■■	■								P6700T	24	8	✓		VA/Ac	PVOH	99	11	525	
■■■	■■■									P6800	32	13	✓		VA/Ac	PVOH	99	11.5	550	
■■	■■■			■■■	■				■■	P6000	7	0	✓		VA/W/Ac	PVOH	99	11.5	485	
	■■			■■■				■■■	■■	P8800	0	0	✓		VA/W/Ac	PVOH	99	11.5	460	
				■■					■■■	P8923	-15	0	✓		VA/W/Ac	PVOH	99	14	400	
										PK		0			Ac	PVOH	97.5	10	350	■■■

■■■ Excellent ■■ Good ■ Fair





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