

## ELOTEX® CF9000

Formaldehyde free acrylic redispersible polymer powder specifically designed for cement free dry-mix finishing coats



## Experience the difference

ELOTEX® CF9000  
formaldehyde free acrylic  
redispersible polymer  
for cement free systems.

AkzoNobel's Performance Additives Building & Construction is continuously investing in fundamental research both internally and in partnership with our extensive network of world renowned research institutes and Universities.

We aim to better understand underlying mechanisms and principles governing behavior and performance of dry mix mortar systems. With this knowledge in our laboratories we develop unique, innovative and sustainable additives which take the performance of dry mortar systems to new heights.

One of the latest additions to our Performance Additives product portfolio, ELOTEX® CF9000 formaldehyde free acrylic redispersible polymer powder has been specifically designed to formulate high performance cement free dry-mix finishing and decorative coats.

The use of ELOTEX® CF9000 brings to our customers not only a sustainability advantage of eliminating cement from their formulations but also ensures high water resistance and weathering (UV) stability of finishing coats. Cement free decorative finishing coats formulated with ELOTEX® CF9000 are a real alternative to the ready-to-use pasty systems.

Move from dispersion based ready-to-use pasty systems will bring following benefits to our customers:

- Less, lighter and lower cost packaging material (paper bags instead of plastic buckets).
- Less waste and easier handling of packaging waste.
- Less transportation and storage costs.
- No freezing issues.
- No biocides in the final powder formulation (normally needed for in-bucket preservation).
- Consistency of the finishing coat can be easily varied by the amount of added water – one powder formulation for different application methods (hand or machine)



Compared to cement based powder finishing coats, cement free formulations with ELOTEX® CF9000 offer:

- pH <10 for a better pigment stability
- Higher color consistency
- No risk of efflorescence

Typical applications of cement free dry mix formulations based on ELOTEX® CF9000 are:

- Interior and exterior decorative wall finishes
- Base coats and textured decorative coats for External Thermal Insulation Composite Systems (ETICS)
- Skim Coats

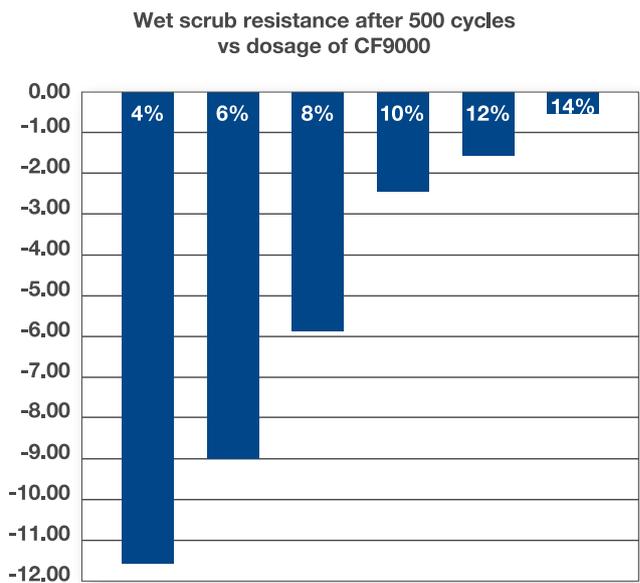
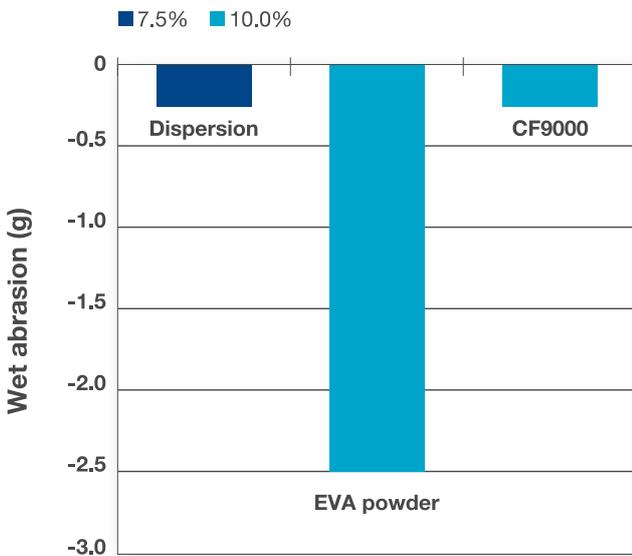
### Tested formulations

Smooth cement free render formulation	Weight %
Calcium Carbonate (45 µm)	30.0
Titanium Dioxide	3.0
Silica Sand (0.1–0.6 mm)	42.7
Silica Sand (0.08 –0.2 mm)	14.0
Powder Defoamer	0.1
BERMOCOLL® M 10 Cellulose Ether	0.2
ELOTEX® CF9000	10.0
Water approx.	19.0

Structured cement free render formulation	Weight %
Calcium Carbonate (45 µm)	55.0
Calcium Carbonate sand up to 2 mm	32.8
Titanium Dioxide	1.0
Powder Defoamer	0.1
Cellulose Fibers	1.0
BERMOCOLL® M 10 Cellulose Ether	0.1
ELOTEX® CF9000	10.0
Water approx.	20.0

For smooth cement free render, 10% of ELOTEX® CF9000 leads to an equivalent wet scrub resistance to 7.5% of dispersion (based on polymer solids content in the dispersion). The conventional redispersible polymer powder based on EVA copolymer show 10 fold worse result compared to formaldehyde free acrylic ELOTEX® CF9000 redispersible polymer powder.

Wet scrub resistance of structured cement free render based on ELOTEX® CF9000 can be adjusted by adjusting the content of the formaldehyde free acrylic redispersible polymer powder.



Additionally, no discoloration of smooth or structured cement free decorative renders formulated with ELOTEX® CF9000 can be observed after 400 hours in Super UV chamber (UV light 300nm) or after 2000 hours Sun-Shine Weather-meter.

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