



High-Tensile Polymer Dispersion for Seamless Waterproofing

In liquid-applied waterproofing, professionals require membranes that are seamless, flexible, and durable, capable of maintaining watertight integrity under UV exposure, weathering, and structural movement. Formulators also seek systems that offer high compatibility with pigments and fillers, along with elevated filler loading capacity to balance performance and cost efficiency.

REVACRYL™ AE 4522 K is a water-based dispersion of a styrene-acrylic ester copolymer, engineered to meet these demands. It delivers high tensile strength and balanced elongation, combined with exceptionally low water uptake, making it ideally suited for high-performance liquid-applied waterproofing membranes. The polymer is chemically modified to bond strongly to mineral substrates, ensuring excellent adhesion even under wet conditions.

REVACRYL™ AE 4522 K forms a clear, tack-free, and water-resistant film that also resists to alkaline and UV conditions. The dispersion is stabilized with an anionic emulsifier system. Its excellent compatibility with conventional pigments and fillers, along with its high filler acceptance, enables formulators to design cost-effective systems without compromising performance.

Apart from waterproofing, **REVACRYL™ AE 4522 K** is very versatile and can also be used for paste-ceramic tile adhesive, bonding aid and primer. Contact us for further information.

Property

REVACRYL™ AE 4522 K

Chemistry	Styrene Acrylic
Solids Content in %	50.0
pH value	7.5
Viscosity in mPa·s	350
Tg in °C	22

Features

- Water resistant
- High tensile strength
- Excellent adhesion on mineral substrates
- No solvent and plasticizer

Applications

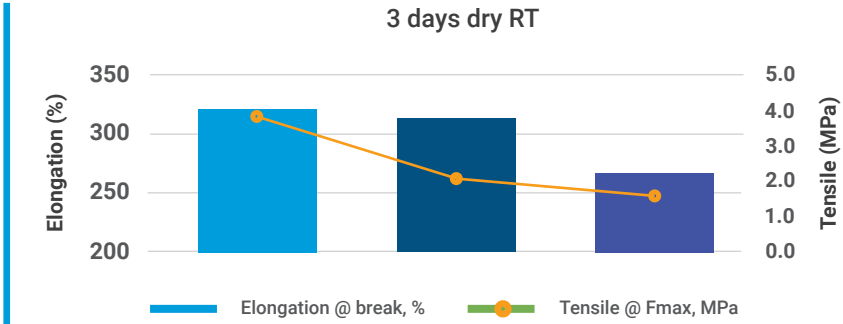
- Interior waterproofing: floors, walls and tiling
- Roof waterproofing
- All mineral construction materials substrates
- Paste ceramic tile adhesives
- Paste Skim Coat
- ETICS adhesives and base coat



Performance Comparison ⁽¹⁾

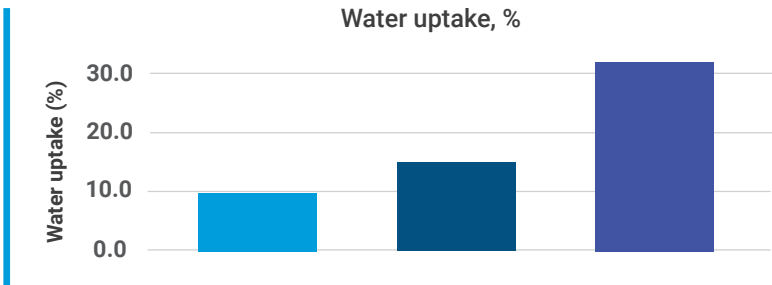
■ REVACRYL™ AE 4522 K ■ Competitor A ■ Competitor B

Elongation and tensile
3 days dry at room temperature



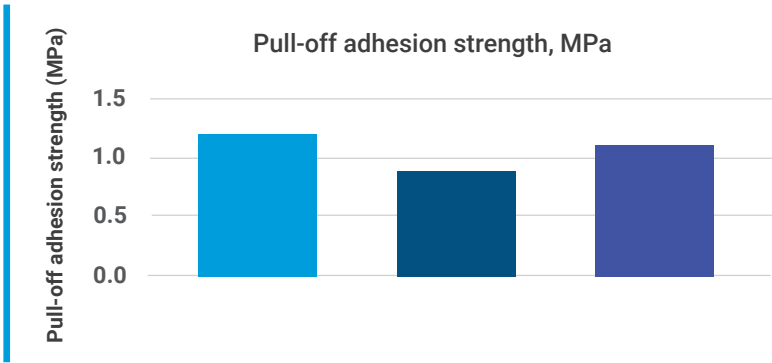
REVACRYL™ AE 4522 K
outperformed competitors in both tensile strength and elongation.

Water uptake
7 days water immersion



REVACRYL™ AE 4522 K
has much lower water up-take than our competitors after water immersion for 7 days.

Pull-off adhesion strength⁽²⁾
After 28 days dry at room temperature



REVACRYL™ AE 4522 K
is chemically bond to mineral sustrates to provide stronger pull-off adhesion compare with the competitors.

(1) Tests are based on liquid applied waterproofing membrane application.
(2) Tested on concrete substrate

