

VINNAPAS® 760 ED

A Novel Cement-Compatible, Highly Flexible Dispersion Based on Vinyl Acetate-Ethylene (VAE)

Flexibility is important for waterproofing membranes, since it defines their ability to accommodate substrate movements and to bridge cracks. This is key to the longevity of the system. With VINNAPAS® 760 ED, WACKER has now developed a new polymer dispersion that combines very high flexibility with high cement compatibility.

A Novel Terpolymer Dispersion

VINNAPAS® 760 ED is a terpolymer based on vinyl acetate, ethylene and vinyl ester that can be used as a hydrophobic binder in two-component cementitious waterproofing membranes. A special feature of the dispersion is its VERSA® vinyl ester technology, produced by WACKER.

Product Data for VINNAPAS® 760 ED

Polymer composition	Vinyl acetate/ethylene/vinyl ester
Stabilization system	Surfactants
Minimum film-forming temperature	0 °C
Glass transition temperature (T _g)	Approx. -12 °C
Solid content	59% ± 2%
Viscosity	Approx. 2,000 mPa·s

Application Range

VINNAPAS® 760 ED is ideal for the formulation of two-component (2K) construction applications such as waterproofing membranes for use in indoor pools, basements and bathrooms, as well as water pipes, canals and sewers, to name just a few examples.

High Flexibility without External Plasticizers

Together with ethylene, the VERSA® vinyl neodecanoate monomer greatly increases the elasticity of the end product. As a result, the coating is more extensible and is very flexible without requiring external plasticizers. In addition, it is highly resistant to hydrostatic pressure, meeting the requirements of EN 14891 (7 days at 1.5 bar).

High Crack-Bridging Ability Even at -20 °C

VINNAPAS® 760 ED ensures outstanding crack-bridging ability, both for static and dynamic cracks – even at exceptionally low temperatures down to -20 °C. Sealing systems based on VINNAPAS® 760 ED thus achieve crack-bridging class O2 as per EN 14891.



Testing the crack-bridging ability in accordance with EN 14891 at a WACKER technical center.

Very Good Tensile Adhesion Strength

VINNAPAS® 760 ED provides reliable and permanent bonding to difficult substrates even after prolonged exposure to water. The tensile adhesion significantly exceeds the minimum requirements of EN 14891 (0.5 N/mm²) under all conditions.

Excellent Cement Compatibility and Workability

VINNAPAS® 760 ED is readily compatible with different types of commercially available cement and has very little influence on cement setting behavior. Moreover, the high solid content of almost 60 percent makes it possible to tailor the polymer/cement ratio to individual requirements without increasing the viscosity. It can thus be easily mixed and applied as a two-component (2K) system on site.

Suitable for Contact with Drinking Water

VINNAPAS® 760 ED's ingredients comply with German Institute for Risk Assessment (BfR) recommendation XIV. The dispersion thus meets a basic prerequisite for use in contact with drinking water. Furthermore, it does not require any additional solvents, plasticizers or film-forming aids, and is manufactured without the use of alkylphenol ethoxylates (APEOs).

Results from Testing at WACKER Technical Center

Guide Formulation of a 2K Cementitious Waterproofing Membrane

Component	Amount
VINNAPAS® 760 ED (S.C. 59%)	388.0
Agitan 281	2.0
OPC CEM I 52.5 N Milke Premium	169.0
Silica Sand F 36 (0.16 mm)	439.0
Betolin V 30	2.0
Total	1,000.0

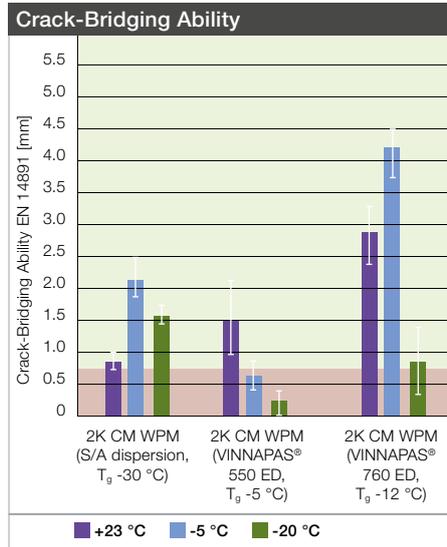
Test formulation

Profit from Our Broad Portfolio

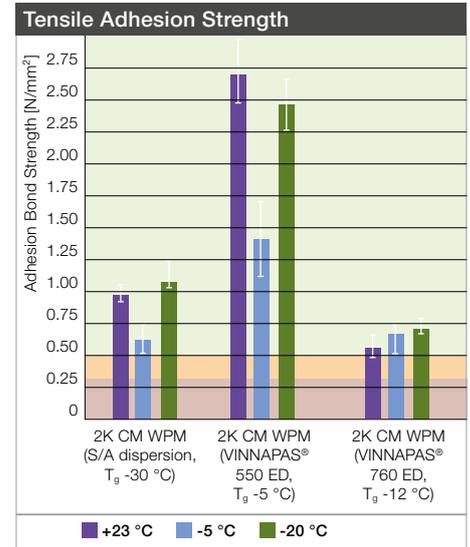
VINNAPAS® 760 ED complements WACKER's portfolio of polymer dispersions as a new, highly elastic dispersion based on vinyl acetate/ethylene/vinyl ester.

Talk to Our Experts!

At our technical centers, we can help you optimize key properties of your products, adapt them to meet new customer requirements or reformulate them for new applications. Talk to us!



VINNAPAS® 760 ED easily fulfills the main requirement for crack-bridging ability (EN 14891) – even down to -20 °C (Class O2).



VINNAPAS® 760 ED fulfills the main requirement for tensile adhesion bond strength (EN 14891 resp. Cat. 2, acc. to ETAG 022).

Go for the Optimum!

Polymer and silicone chemistry have changed the construction industry worldwide.

We offer you this expertise in a unique way, since WACKER combines the qualities of being

- a worldwide leader in polymer binders for construction materials
- one of the biggest silicone producers globally
- close to you with native, expert staff
- able to offer individual technical support through our technical centers.

Our comprehensive portfolio, long-standing experience and efficient service will help you find the solution best fitted for your specific application. Talk to us!