



**WACKER**

CREATING TOMORROW'S SOLUTIONS



VINNOL®

EUROPE | TEXTILE COATING | FLAME PROTECTION

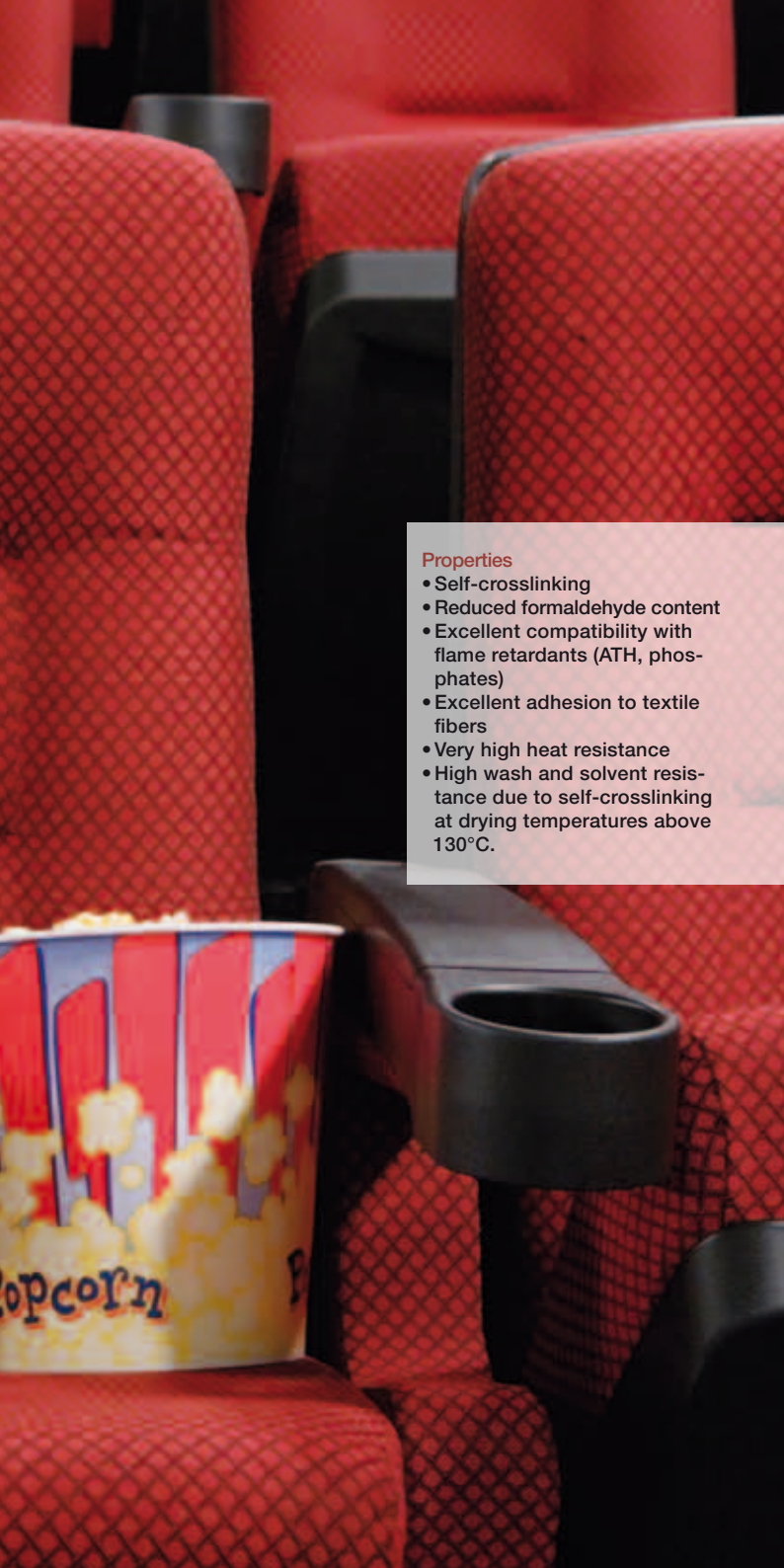
VINNOL® CEN 2752 –  
NEW FLAME-RETARDANT  
BINDER

With Reduced Formaldehyde Content

# VINNOL® CEN 2752: A NEW-GENERATION BINDER

The future calls for user-friendly products. One of the challenges facing furniture manufacturers, for example, is to lower the formaldehyde content of their products. At the same time, safety criteria such as flame retardancy still have to be met. Our innovative VINNOL® CEN 2752 can be useful here.

The new VINNOL® CEN 2752 is an aqueous E-VC Copolymer dispersion made from the monomers vinyl chloride and ethylene. It is an excellent binder for coating modern textiles and nonwovens. The high proportion of vinyl chloride in the base polymer makes it ideal for flame-retardant finishing of textiles, allowing the proportion of flame-retardant additives in the formulation to be reduced.



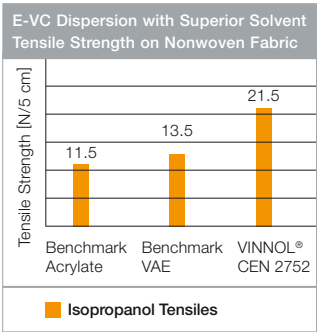
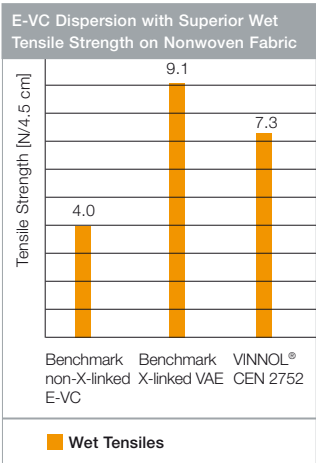
#### Properties

- Self-crosslinking
- Reduced formaldehyde content
- Excellent compatibility with flame retardants (ATH, phosphates)
- Excellent adhesion to textile fibers
- Very high heat resistance
- High wash and solvent resistance due to self-crosslinking at drying temperatures above 130°C.

# EFFICIENT FORMULATION

VINNOL® CEN 2752 improves more than the user safety and future viability of coatings. Reducing the formaldehyde content and lowering the proportion of flame-retardant additives also cuts costs and increases quality.

Physical Properties of VINNOL® CEN 2752	
Solids content (%)	50 ± 1
pH	5.0 – 7.5
Viscosity (Brookfield 20 rpm; mPa.s)	200 ± 150
Polymer	X-linked ethylene-vinyl chloride copolymer
Stabilization	Made without APE emulsifiers
Formaldehyde in dispersion	< 300 ppm
Tg (°C); DSC midpoint	≈10°C
Filler and pigment compatibility	+++
Tensile strength, wet	++
Tensile strength, solvent	+++
Water absorption after 24 hours	≈10%





## WIDE RANGE OF PROCESSING AND APPLICATION OPTIONS

VINNOL® CEN 2752 is highly compatible with fillers. The dispersion boasts stable viscosities and rheological properties, has little grit level, and is not subject to sedimentation. It therefore permits excellent processing by all conventional methods. VINNOL® CEN 2752 is miscible with most VINNOL® and VINNAPAS® dispersions. Mixing with VINNOL® CE 35 or VINNOL® CEN 203 is recommended for a harder hand.

### Typical Applications

- Upholstery fabrics
- Needle-felt carpets
- Roller-blind fabrics and vertical blinds
- Heat-sealable and HF-weldable wadding materials
- Flock adhesives
- Non-slip finishes

### Processing Options

- Spraying
- Impregnation
- Foaming
- Roller application
- Screen printing

## ANOTHER KEY USE: FLAME-RETARDANT ADHESIVES

Applications for VINNOL® CEN 2752 include upholstery fabrics and sun-protection articles, e.g. sunshades and blinds, used in the private-residential and commercial-property sectors. The new dispersion adheres reliably to synthetic fibers and to PVC coatings.

It can be used as an adhesion promoter for PVC plastisols on substrates (PVC flooring) or for bonding PVC to cardboard, paper and fiber materials. VINNOL® CEN 2752 can also be used to strengthen needlefelt carpets and provide them with a flame-retardant finish.



The new dispersion VINNOL® CEN 2752 with a reduced formaldehyde content is particularly suitable for textiles with stringent flame-retardancy requirements. Laboratory tests show whether textiles pass the relevant flame test (example left) or are readily flammable (example right).



## YOUR GLOBAL PARTNER FOR LOCAL SOLUTIONS

**WACKER offers you a local presence worldwide. You have at your disposal, across five continents, the knowledge of local experts, who are in turn supported by a global network. You'll gain advantages such as our unique expertise acquired in a broad spectrum of applications and markets during over 50 years of experience.**

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We have our own production sites in Europe, the USA and Asia, which reduce transit times and ensure continuity of supply while maintaining consistently high quality.

### **Standard-Specific Tests**

Specialists from our technical centers support you in optimizing existing formulations and developing new products.

### **Your Partner for Innovations**

WACKER is active on standardization committees worldwide, collaborating closely with universities and regularly partnering with research institutes to develop projects. That makes us especially qualified to be a partner for innovations – which we will gladly initiate and see through to completion with you. Just contact us!

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**WACKER**

Wacker Chemie AG  
Hanns-Seidel-Platz 4  
81737 Munich, Germany  
Tel. +49 89 6279-0  
Infoline +49 8677 83-7979  
[info.polymers@wacker.com](mailto:info.polymers@wacker.com)

[www.wacker.com/polymers](http://www.wacker.com/polymers)

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