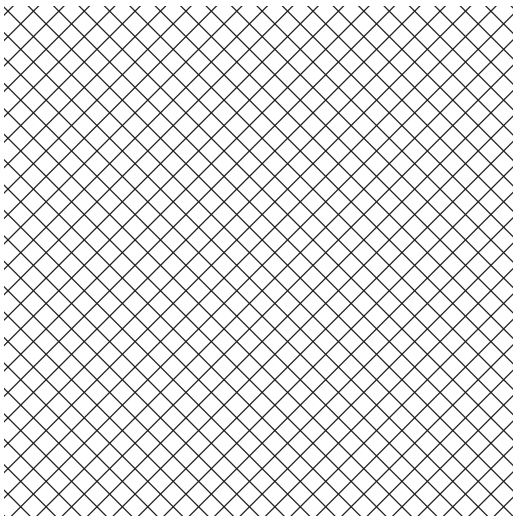

# DKV.4171

## *Positive connection: cationic locking*

If you are using conventional waterborne coatings, wood stains can dissolve from the substrate, leading to a change in color. With our product DKV.4171, we have the solution! The cationic nature of this resin helps to lock stains into the primer, preventing them from migrating to the surface. The waterborne DKV.4171 effectively locks in stains, dries quickly, and is environmentally friendly. Additionally, this resin provides excellent adhesion to wood, existing coats, and mineral substrates.

### Unique properties

- Locks wood bleeds without problems
- Locking properties against all types of stain and dirt
- Good wet adhesion
- Suitable for interior and exterior applications

### Environment-friendly

- Contains neither APEO nor plasticiser
- Not EUH 208 labelled

### Typical applications

- Wood stain locking primers
- Locking primer against nicotine, soot and water stains

### Technical properties

| | |
|---|---|
| Resin base | Acrylate / VeoVa |
| Solids content | 39–41 % |
| Density | approx. 1 g/ml at 20 °C |
| Stabilizer system | cationic |
| Viscosity | 1200–1800 mPa·s at 20 °C |
| pH-value | 5.0–6.0 |
| Particle size | 170 nm |
| MFFT | <5 °C |
| Frost resistance | no |

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## *White isulating primer based on DKV.4171*

*Starting formulation 4171-IG01-01*

| | Raw materials | Quantity | Function | Supplier |
|---|---|---|---|---|
| 1 | Water | 143.0 | | |
| 2 | Disperbyk-2012 | 6.0 | Wetting and dispersing agent | BYK-Chemie GmbH |
| 3 | Tego Foamex 815 N | 1.0 | Defoamer | Evonik Industries AG |
| 4 | Kronos 2190 | 160.0 | Pigment | Kronos International Inc. |
| 5 | Dorkafill Pro_Void | 55.0 | Filler | Gebrüder Dorfner GmbH & Co. |
| 6 | Finntalc M05SL | 10.0 | Filler | Mondo Minerals |
| 7 | Blanc Fixe N | 65.0 | Filler | Sachtleben Chemie GmbH |
| 8 | Aerosil R 972 | 1.0 | Anti-setting agent | Evonik Industries AG |
| **9** | **DKV.4171** | **550.0** | **Resin** | **VANORA AG** |
| 10 | Tafigel PUR 41 | 7.0 | Thickener | Münzing Chemie GmbH |
| 11 | Tafigel PUR 61 | 0.5 | Thickener | Münzing Chemie GmbH |
| 12 | Formic acid (10 %) | 1.5 | Acid | Diverse |
| | | 1000.0 | | |

**Mixture instruction**

| | |
|---|---|
| Pos. 1-3 | Submit |
| Pos. 4-8 | Add during agitation, disperse for at least 20 minutes |
| Pos. 9 | Add during agitation, stir for 5 minutes |
| Pos. 10-11 | Premix, add during agitation, stir for 10 minutes |
| Pos. 12 | Set pH to 5.0-6.0 |

**Technical data**

| | |
|---|---|
| Viscosity Brookfield at approx. 20 °C (Spindle 6, 100UpM) | 2560 mPa.s |
| pH | 6.0 |

**Suitable raw materials**

Dispersing agent: Disperbyk-2012, Edaplan 492, Tego Dispers 740 W, EFKA 4550

Defoamer: Tego Foamex 815 N, BYK-1711, Agitan 700, Drewplus TS-4385

Thickener: Tafigel PUR 41, Acrysol RM-825, Coapur 975 W, BYK-425

Cosolvent: Butylglykol, Dowanol DPnB, Butyldiglykol, Texanol