

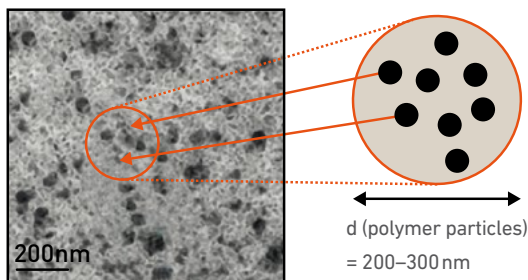
CELVOLIT® LDM 1869

Brilliant exterior paint with patented VAE Inclusion Technology

Celvolit® LDM 1869 is an excellent binder for exterior coatings like masonry paints & plasters with optimized balance regarding liquid water & water vapor penetration.

The patented VAE Inclusion Technology allows the introduction of hard acrylic domains into a VAE polymer matrix without increasing the MFFT. This results in a combination of the best of both monomer systems, (including excellent durability), and color retention – especially in combination with organic pigments. Celvolit® LDM 1869 represents the next generation of VAE-based dispersions designed for exterior paints & plasters.

VAE Inclusion Technology



TEM picture: Polymer film showing evenly distributed domains of the hard polymer, which are significantly smaller than the size of the emulsion particles.

The VAE Inclusion Technology also offers excellent fire-retardant characteristics. This is especially important for External Thermal Insulation Composite System (ETICS), which must meet the requirements for the classification B1 according to DIN 4102 (German Brandschacht Test) or the Euroclass B classification, according to the European SBI test DIN EN 13501. The low MFFT of approx. 1 °C allows for a reduction in solvent and plasticizer content, which represents the next ecologically friendly trend for low VOC exterior paints.

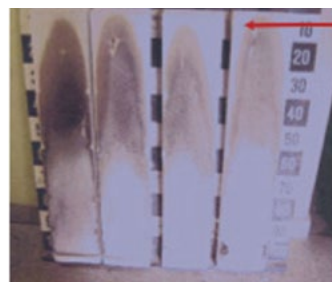
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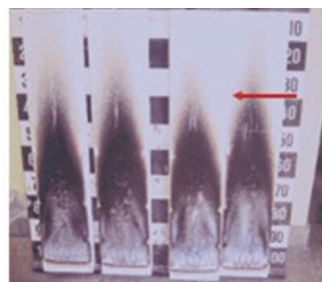
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EMUL-001-CelvolitLDM1869-SS-EN-0125

Brandschacht test results

Pure acrylic



VAE Inclusion



At least 15 cm residual length is needed for the test for class B1.

Key features

- Low dirt pick-up
- Good colour retention
- Low water uptake
- Good fire retardancy

Applications

- Masonry paints & plasters

Typical Properties

Chemical base	Vinyl acetate/ethylene and (meth) acrylic acid esters
Solid content	52 – 54 %
Brookfield viscosity	500 – 2500 mPa·s
pH value	4.0 – 6.0
MFFT	approx. 1 °C
Tg	approx. 13 °C

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