

WOOD COATINGS

Inherently matte technology and product specifications

TECHNOLOGY OVERVIEW

Using a proprietary process, Zschimmer & Schwarz offers an inherently matte acrylate polymer. After drying, a film with low gloss, high transparency and excellent adhesion to various substrates is formed.

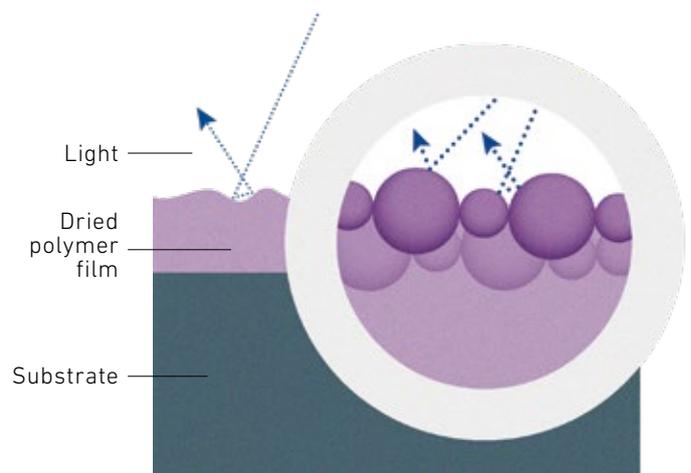
The polymer is a matte film former and not a "liquid matting agent", meaning it should be formulated as a conventional (water-based) acrylic polymer. It can be used as a single binder or in a blend with other acrylics or polyurethanes and has low foaming and low VOC requirements. The time- and labour-consuming incorporation of solid matting agents is completely eliminated, making the formulation much simpler, more stable and more economical. Coatings based on matte polymers have lower haze compared to conventionally matted coatings.

DI18030-35 | PRODUCT OVERVIEW

Very low- to satin-gloss lacquers with very good water and blocking resistance, high transparency on dark substrates, excellent grain wetting and appearance on wood. Single binder or combination partner for inherently matte polyurethanes, non-matte PUDs and acrylic polymers.

FEATURES & BENEFITS

- ▶ Easy to formulate with low foaming
- ▶ Low VOC demand
- ▶ Stable – no settling of the polymer



PRODUCT SPECIFICATIONS

DESCRIPTION	Inherently matte self-crosslinking acrylic polymer
IONICITY	Anionic
SOLID APPROX. [%]	45
PH	7.5
MFFT [°C]	30

TOPCOATS/ MULTILAYER	Highly recommended
FURNITURE	Highly recommended
FLOORS	Highly recommended
JOINERY	Recommended

MATTE POLYMER IN COMBINATION WITH ACRYLICS, ACRYLIC POLYURETHANES AND HARD MATTE POLYURETHANE DISPERSIONS

Matte polymer DI18030-35 in combination with	Gloss units 60° 120 µ applied	Chemistry of the combination partner
DI18030-35 (100%)	6.7	No combination partner
SYNTRAN® APU 1602 (2:1)	9.8	Acrylic modified polyurethane
SYNTRAN® APU 1602 (1:1)	12.8	Acrylic modified polyurethane
DI18029-36 (2:1)	10.0	Self-crosslinking acrylic
DI18029-36 (1:1)	26.7	Self-crosslinking acrylic
SYNTRAN® AC 5922 (2:1)	19.5	Self-crosslinking acrylic (adhesion on PVC)
SYNTRAN® AC 5922 (1:1)	31.0	Self-crosslinking acrylic (excellent adhesion on PVC and old alkyd coatings)

PROPERTIES AND APPEARANCE ON WOOD SUBSTRATES

- ▶ INHERENT SURFACE ROUGHNESS PROVIDES A MATTING EFFECT
- ▶ EXCELLENT GRAIN WETTING AND HIGH TRANSPARENCY GIVE THE WOOD A NATURAL LOOK

Wood coated with matte lacquer based on DI18030-35



Non-coated wood



Matte lacquer with DI18030-35 coated on glass



Non-coated glass panel

Gloss: 3–6/60° the polymer itself, 3–10/60° lacquer based on the polymer

Gloss: 6/60°, 120 µ film thickness wet, 40 µ film thickness dry

Surface roughness: scanned



Surface roughness: 3D picture

