

# INHERENTLY MATTE TECHNOLOGY

Using a proprietary process, Zschimmer & Schwarz offers an inherently matte acrylate polymer. After drying, a film with low gloss, high flexibility and excellent stability is formed. This technology also provides excellent adhesion to various substrate types.

The polymer is a matte binder and not a “liquid matting agent”, meaning it can be formulated as a conventional (water-based) acrylic polymer, replacing the binder. It can be used as a single binder or in a blend with polyurethanes and has low foaming and low VOC requirements. The time- and labor-consuming incorporation of solid matting agents is completely eliminated, making the formulation much simpler, more stable and more economical. Unlike conventional matting agents, the matte polymer also has excellent transparency.

## SYNPRINT AC 2910 | PRODUCT OVERVIEW

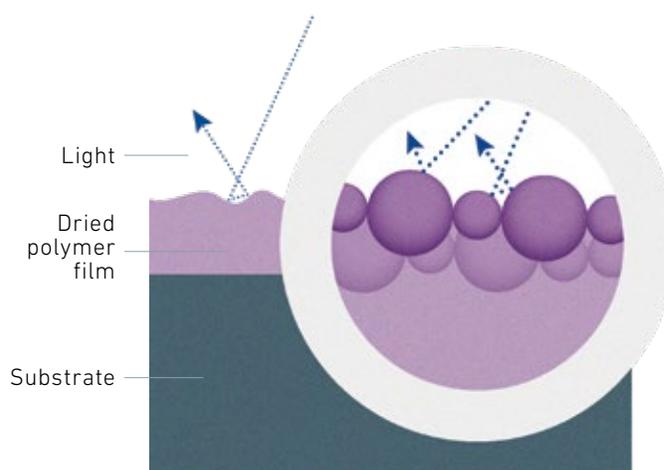
Inherently matte acrylic polymer; this technology produces a film with low gloss, high flexibility and excellent stability while providing excellent adhesion to various substrate types; it is recommended to fortify SYNPRINT AC 2910 with another resin such as SYNPRINT AC 5151 or similar to improve the overall film properties.

## PRODUCT SPECIFICATIONS

<b>DESCRIPTION</b>	Inherently matte acrylic self-crosslinking polymer
<b>IONICITY</b>	Anionic
<b>SOLID APPROX. [%]</b>	45
<b>PH</b>	7.5
<b>MFFT [°C]</b>	0

## FEATURES & BENEFITS

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



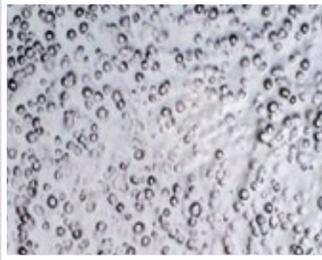
<b>OPV</b>	Highly recommended
<b>PAPER &amp; BOARD</b>	Highly recommended

# PERFORMANCE DATA

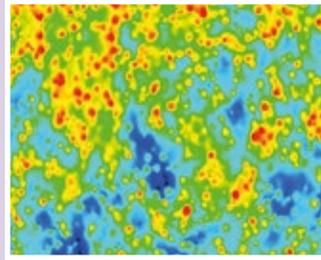
## SCANNING ELECTRON MICROSCOPE (SEM)

100% dull T<sub>g</sub> 0 acrylic

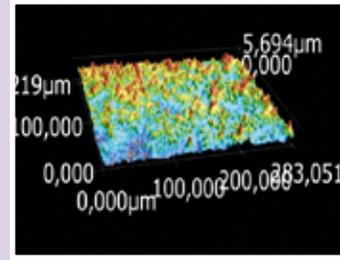
Actual picture of the surface texture



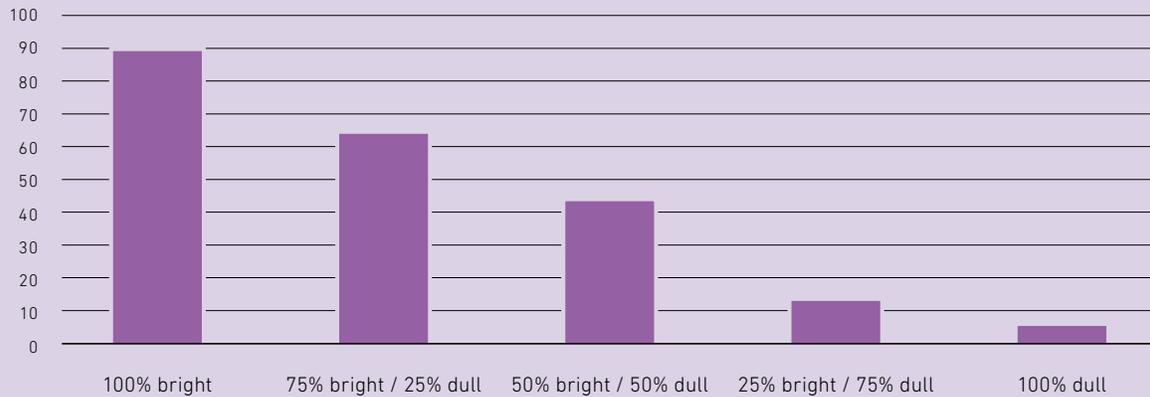
Colored picture of the surface texture



3D picture of the surface texture



## DILUTION EFFICIENCY



## FILM CLARITY

Bright T<sub>g</sub> 5



Dull T<sub>g</sub> 0



50/50 blend



T<sub>g</sub> 5 with silica



Coated using 10 Meyer Rod on PET film, dried at 70 °C, then placed over internal clarity standard