

Matting agent

Techpolymer



Description

Spherical, polymeric beads for matting and for the modification of surface properties of different paints and coatings. Techpolymer beads are non-porous, without a hollow core and crosslinked. Thus they are resistant to solvents and only slightly increase the viscosity of a formulation. They are primarily used to obtain surfaces with optimal chemical (furniture and automotive requirements) and mechanical resistance (against abrasion, polishing). Techpolymer may also be used in conjunction with silica matting agents to minimize their negative impact on the durability of highly matted coatings.

Techpolymer is available in various particle sizes, degrees of crosslinking, refractive indices and degrees of hardness. In addition to the matting effects also light-diffusing- and surface texturing effects can be achieved. Techpolymer improves the grip and enhances the soft-touch/anti-slip of the coating. Depending on the refractive index of the binder, highly transparent to translucent coatings (frosted glass effect) can be produced.

Range of use

Techpolymer can be incorporated optimally in all common binder systems under constant stirring using a dissolver:

- Water-based coatings (1pack/2pack)
- Solvent-based coatings (1pack/2pack)
- UV-coatings (100%, water-, solvent-based)

Applications

- Parquet varnishes, floor care products
- Plastic part coatings
- Furniture coatings/foils
- Glass coatings
- Foil coatings
- Packaging inks
- (Artificial)Leather-Topcoats
- Wood stains
- Wall paints
- Light-diffusion coatings

Storage

Store in closed containers at normal room conditions. Avoid high temperatures and high relative humidity. Do not stack pallets.

Techpolymer MBX, EXM – hard, crosslinked beads based on polymethylmethacrylat

Packaging: 20 kg paper bag
 Residual water: ≤ 3%
 Residual monomer: < 1%
 Heat resistance: 250-270 °C
 Refractive index: 1.49

Techpolymer	average particle size	crosslinking degree
EXM-5	3 – 7 µm	standard
MBX-8P	6 – 10 µm	standard
MB30X-8*	6 – 10 µm	high
MBX-20P	14 – 20 µm	standard
MBX-30	25 – 31 µm	standard
MBX-40	36 – 44 µm	standard
MBX-50	44 – 56 µm	standard
MBX-60*	52 – 67 µm	standard
MBX-80*	68 – 89 µm	standard

* available upon request

Techpolymer MBX-Y – hard, crosslinked beads based on polymethylmethacrylat
 – Hydroxyl-functional for optimal dispersion and wetting in coating systems

Packaging: 20 kg paper bag
 Residual water: ≤ 3%
 Residual monomer: < 1%
 Heat resistance: 250-270 °C
 Refractive index: 1.49

Techpolymer	average particle size	crosslinking degree
MB30X-5Y	4 – 6 µm	high

Techpolymer AFX – Crosslinked acrylic ester copolymer. Very soft, flexible, with high recovery properties

Packaging: 10 kg paper bag
 Residual water: ≤ 3%
 Residual monomer: < 1%
 Heat resistance: 220-240 °C
 Refractive index: 1.49

Techpolymer	average particle size	crosslinking degree
AFX-8	6 – 10 µm	low
AFX-15	12 – 18 µm	low
AFX-30*	26 – 34 µm	low

* available upon request

Techpolymer ARX – soft, flexible beads. Mixture of crosslinked acrylic esters and silica

Packaging: 10 kg paper bag
 Residual water: ≤ 3%
 Residual monomer: < 1%
 Heat resistance: 230-250 °C
 Refractive index: 1.49

Techpolymer	average particle size	crosslinking degree
ARX-806*	6 – 10 µm	standard
ARX-15*	12 – 18 µm	standard

* available upon request

Techpolymer SBX – hard, crosslinked beads based on polystyrene

Packaging: 20 kg paper bag
 Residual water: ≤ 3%
 Residual monomer: < 1%
 Heat resistance: 250-270 °C
 Refractive index: **1.59**

Techpolymer	average particle size	crosslinking degree
SBX-6*	4 – 8 µm	standard
SBX-8*	6 – 10 µm	standard

* available upon request

Contact

Customer-specific requirements need individual solutions. Therefore, please contact us in any case so that we can offer both advice and support before commencing any development work.

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Created 2024-07-03

replaces sheet from 2022-10-25