



MINEX® ST

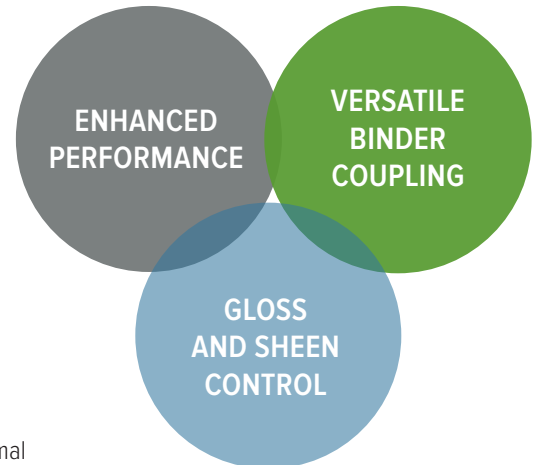
Surface-Treated Functional Filler

MINEX® ST for enhanced performance in coatings, adhesives and sealant systems

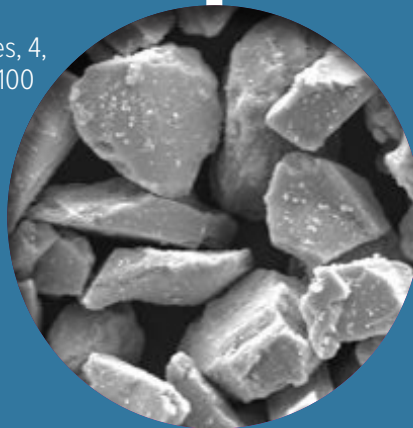
Select surface treatments were developed to further enhance the already proven properties of MINEX. MINEX ST surface treatments can enhance chemical and stain resistance, washability, adhesion, weatherability and optical clarity. Additionally, it can improve a wide range of other mechanical properties from abrasion to tensile strength by compatibilization of the silicate surface with the host binder system.

Designed for compatibility in both solvent and waterborne systems

MINEX ST treatments were designed to homogenize the MINEX silicate surfaces for optimal dispersion and cross-linking in both aqueous and solventborne systems. Formulators will obtain the best results when utilized in cross-linkable resin, from light to heavy duty systems where the proprietary surface treatment combinations allow for enhanced wetting, coupling and increased bond strength. MINEX ST increases mechanical and chemical performance by strengthening the binder to filler interfaces.



- MINEX ST is available in three particle sizes, 4, 7 and 10 and two functional treatments, A100 and OV100.
- MINEX ST A100 improves properties in water and solventborne epoxies, as well as 1K self-cross-linking and 2K waterborne systems.
- MINEX ST OV100 improves properties in solventborne cross-linked systems.



- MINEX ST can provide cost savings via higher loadings and improved dispersion.
- MINEX ST significantly increases overall mechanical properties, weathering and chemical resistance.
- MINEX ST is ideal in polysulfide adhesives.

For more information about the new MINEX ST surface-treated functional filler, please email: Coatings@CoviaCorp.com or call customer service at: 1-800-243-9004.



MINEX® ST

Surface-Treated Functional Filler

Easy dispersion for a myriad of applications

MINEX ST easily disperses in a wide range of advanced resin systems for protective, general industrial, floor, powder, wood, specialty architectural, aerospace and automotive coatings.

Resin Compatibility and Coupling Range with MINEX ST A100 4, 7, 10

WB and SB ³ Epoxy	Polysulfide Adhesives	Phenolic	Self Crosslinking Acrylic	Waterborne 2K PU	Waterborne 1K PUD, PUD/ Acrylic Blends	100% Acrylic	Vinyl Acrylic
excellent	excellent	excellent	good ¹	good ¹	good ¹	fair ²	low ²

Resin Compatibility and Coupling Range with MINEX ST OV100 4, 7, 10

2K PU	Polyaspartic	Melamine	Silicone Sealant and Coating	Polyester	Epoxy	Alkyd	NC Wood	AC Wood
excellent	excellent	excellent	excellent	excellent	good ³	good ⁵	fair ⁵	low ⁴

Improve performance while maintaining safety

MINEX and MINEX ST functional fillers are produced from nepheline syenite; a naturally occurring, silica deficient, sodium-potassium alumina silicate. Automated scanning electron microscopy confirms they contain less than one-tenth of one percent crystalline silica. No free crystalline silica is detectable in the mineral complex. All MINEX ST grades are processed and sized with rigid adherence to Covia's QIPSM quality assurance programs. Consistently uniform chemistries, size distributions, and top size controls ensure reliable performance.

1. Rheology and dispersion with less wetting dispersants, Improved suspension and shelf life.
2. Standard MINEX is a better option for waterborne acrylic and vinyl acrylic coatings that do not have a cross-linking mechanism.
3. Solvent borne epoxy benefits from cross-linking of MINEX ST A100, epoxy systems benefit from improved dispersion and water resistance of MINEX ST OV100.
4. IMSIL® is a better option for acid cat varnishes due to high pH.
5. Can be used in solvent borne alkyd, especially urethane modified alkyds. IMSIL delivers excellent properties and cost-effective choice for alkyds and NC if silica is not a concern.

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