

## Product Overview

The CERAVIS™ Series includes aqueous polymeric binder formulations designed for the production of technical ceramics, vitrified tiles and tableware. Built on high-purity copolymer chemistry with rheology-control additives, CERAVIS™ improves interparticle cohesion, increases green strength and supports stable processing in automated, high-throughput manufacturing environments.

## Chemistry and Binding Mechanism

The CERAVIS™ binder system supports the structural performance of green and unfired ceramic bodies through the following mechanisms:

**Chemical Composition:** Formulated as a high-purity aqueous copolymeric system based on acrylamide and sodium acrylate.

**Matrix Architecture:** Includes rheology-modifying components that help stabilize flow behaviour, maintain suspension uniformity and reduce application variability.

**Binding Mechanism:** During drying, the polymer forms a continuous three-dimensional network that helps anchor mineral particles and improve handling strength.

## Technical Specifications

The values below represent typical product characteristics determined through standard quality control procedures. Note: These values are provided as a general guide and do not constitute a sales specification.

Technical Property	CERAVIS™ 912
Physical Appearance	Colorless Clear Liquid
Physical Form	Viscous Liquid
pH Value (@ 25°C)	11.0 – 13.0
Bulk Viscosity (cps)	1000 – 3000
Specific Gravity (@ 25°C)	1.00 – 1.30
Average Solids	7.0 – 9.0

## Applications

CERAVIS™ is suitable for a range of ceramic processing routes, including:

**Industrial Ceramic and Vitrified Tiles:** Suitable for floor, wall and porcelain tiles that require good green handling strength.

**Technical and Engineering Ceramics:** Supports dimensional consistency and handling stability for complex ceramic components.

**Tableware and Fine Bone China:** Helps maintain shape retention and consistency in fine ceramic formulations.

**Additive Manufacturing (3D Printing):** Can support layer deposition and interim green body shape retention in paste- or slurry-based systems.

**Surface Coatings:** Can help improve stability and coverage uniformity in technical glaze slips.

## Storage, Packaging and Logistics

**Standard Packaging:** Supplied in standard intermediate bulk containers (IBC totes) and high-density polymer drums. Custom export packaging options are available on request.

**Storage Conditions:** Store in tightly sealed containers between 5°C and 35°C. Protect the product from freezing and prolonged exposure to excessive heat.

**Handling Note:** Direct sunlight or temperatures above 35°C may cause the HDPE drums to bulge slightly. This is a normal physical reaction caused by water evaporation and does not affect product quality. To resolve this, gently loosen the cap to release the pressure, then tighten it again. Move the HDPE drums to a cool, shaded area.

**Shelf Life:** Typical shelf life is 12 months from the date of manufacture when stored unopened in the original packaging.

## Regulatory and Performance Disclaimer

The technical data and application guidance provided here are based on laboratory evaluation and current technical knowledge. These values represent typical product characteristics and do not constitute a warranty of performance or suitability for a specific application. Because raw materials, equipment, operating conditions and site practices vary, users should conduct their own validation trials to confirm performance and compatibility. The manufacturer accepts no liability for variations arising from site-specific processing conditions.

