



WALOCEL™ MKW 20000 PP 20

Modified Hydroxyethyl Methyl Cellulose

Introduction

WALOCEL™ MKW 20000 PP 20 modified hydroxyethyl methyl cellulose is designed for cement spray plaster applications, such as one- or two-coat cement-based plaster, cement-based light-weight plaster, and cement-based reinforcing and bonding mortars for exterior insulation and finish systems (EIFS). It imparts well-balanced properties including high standing strength, effective stabilization of air voids and good impact resistance. WALOCEL™ MKW 20000 PP 20 also adds good workability and enhances water retention. The selected particle size distribution offers quick dissolution and viscosity development. It is compatible with all conventional mineral binders and additives used in cement spray plaster formulations.

Typical Physical Properties

These properties are typical but should not be considered specifications.

Form	Powder
Solubility	Water soluble
Viscosity ⁽¹⁾ , mPa•s	20,000 - 27,000
pH (2% solution)	Neutral
Moisture content, %, max.	7

⁽¹⁾2% solution in water, Haake Rotovisko RV 100, shear rate 2.55s⁻¹, 20°C

Health and Safety Considerations

WALOCEL™ products have had extensive evaluation in both acute and long-term studies in a number of species, including humans. Their many years of use attest to their safety in a wide variety of applications. While the dust may cause mechanical irritation to the skin and eyes under extreme conditions, the products are considered to present no significant health hazard under normal handling conditions.

Flammability

Cellulose ether products are organic polymers that will burn when exposed to heat and a sufficient oxygen supply. Fires can be extinguished by conventional means avoiding any raising of dust by strong water jets. Dow recommends the use of water spray, carbon dioxide or powder extinguishers.

Handling

During use or storage, safe handling is required to prevent dust with air from reaching explosive levels as is true with other organic materials of similar particle size. When handling large quantities, local applicable regulations concerning the prevention of dust explosions or those outlined in the National Fire Protection Association (NFPA) Standard: "Prevention of Dust Explosions in Industrial Plants" should be followed. With cellulose ethers, the critical level may be reached at about 28 grams dust/m³. Additionally, WALOCEL™ products, like other organic chemicals, should not be stored next to peroxides or other oxidizing agents.

Spills/ Housekeeping

Solutions of WALOCEL™ products are slippery. To prevent accidents, floor spills of dry powder should be swept up dry. If the spill is a viscous solution, it should be removed by further diluting with water before disposal.

Disposal

WALOCEL™ cellulose ether products present no significant ecological problems. Typically, they can be disposed of by industrial incineration or in an approved landfill, providing regulations are observed. Customers are advised to review their local, state, provincial or national regulations governing the disposal of waste materials to confirm the appropriate means of disposal in their area.

Product Stewardship

Dow has a fundamental concern for all who make, distribute and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products – from the initial concept and research to manufacture, use, sale, disposal and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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