



Construction Chemicals

Cellulosics and Redispersible Powders

Product Guide



Your cellulose and redispersible powders applications specialist

Dow Construction Chemicals offers a robust portfolio of cellulose ether and redispersible latex powder products and technology for construction applications. We use our proven chemistry, world-class research capabilities, and our experience in the building and construction industry to remain current on the industry's ever-changing trends and help bring you the innovations of tomorrow.

High-performance cellulose and companion chemistries are used in a wide range of applications as thickeners, bonding and adhesion agents, coatings and additives to vary viscosity, workability, strength development, solubility, body, mechanical strength and many other application-specific properties.

Employing construction chemical application and manufacturing expertise to offer solutions based on customer needs, Dow Construction Chemicals can help you take performance to the next level. We look forward to working with you to develop innovative solutions for your products. And we'll be here to respond quickly with technical service and support.

Better Building Starts Here



A broad range of products

The versatile characteristics of WALOCEL™, METHOCEL™ and CELLOSIZETM CelluloseEthers, plus DOW™ Latex Powders (DLP) and DRYCRYL™ Redispersible Powder, offer a number of benefits for building materials. Considerable features of cellulose ether polymers from Dow Construction Chemicals include:

- Rapid build-up of a temperature-stable high water retention capability
- Selective consistency adjustment for easy workability
- Selective control of rheology for improved workability
- Stabilization of air voids
- Improved substrate adhesion for building materials

Low addition rates of WALOCEL™, METHOCEL™ or CELLOSIZETM Cellulose Ethers are typically sufficient to obtain the desired effects such as smooth workability and sag resistance, provided the appropriate grade tailored to the specific field of application is used. A series of tables contained in this brochure lists suggested products for:

- Tile adhesives and tile grouts
- Fillers, levelers and joint compounds
- Reinforcing and bonding mortars for exterior insulation and finish systems (EIFS)
- Gypsum- and cement-based plasters
- Latex-based systems

Our current product portfolio is outlined at www.dowconstructionchemicals.com.

Classification WALOCEL™ M, WALOCEL™ C, METHOCEL™ and CelloSize™

Trade name	WALOCEL™, METHOCEL™ cellulose ethers, cellosize™ hydroxyethyl cellulose
Type of substitution	WALOCEL™ M hydroxyethyl Methyl cellulose, hydroxypropyl Methyl cellulose METHOCEL™ hydroxypropyl Methyl cellulose WALOCEL™ c carboxymethyl cellulose CELLOSIZETM hydroxyethyl cellulose
Mean viscosity	100 – 80,000 mPa • s, 2% solution, measured with a haake rotational rheometer, 20°C, shear rate 2.55 s ⁻¹

Cement-Based Tile Adhesives (CBTA)

Product	Viscosity MPA • S	Properties
WALOCEL™ VP-M-49125	8,000	modified HPMC grade for long open time and very high slip resistance
WALOCEL™ MKS 10000 PF 60	10,000	modified HPMC grade for long open time and very high slip resistance
WALOCEL™ MKX 15000 PF 01	15,000	medium viscosity HEMC grade recommended for standard quality polymer and non-polymer modified thin-sets
WALOCEL™ MW 15000 PFV	15,000	medium viscosity HEMC grade with delayed hydration; suitable for dry-mix and ready-to-use
METHOCCEL™ 327	20,000	multipurpose; good open time and slip resistance
WALOCEL™ MKX 20000 PP 10	20,000	modified HEMC grade; good open time and workability
WALOCEL™ MKX 25000 PF 25 L	25,000	modified HEMC grade; long open time, good slip resistance and workability
WALOCEL™ MKX 40000 PF 01	40,000	high viscosity HEMC grade; recommended for standard quality polymer and non-polymer modified thin-sets
WALOCEL™ MW 40000 PFV	40,000	high viscosity HEMC grade with delayed hydration; suitable for dry-mix and ready-to-use
WALOCEL™ MKX 45000 PP 10	45,000	high viscosity HEMC grade offering good open time, workability and moderate slip resistance
WALOCEL™ MKX 45000 PF 20 L	45,000	modified HEMC grade provides long open time, excellent workability and good slip resistance
WALOCEL™ MKX 60000 PF 01	60,000	very high viscosity HEMC; high water retention/open time at low dosage rates
WALOCEL™ MW 60000 PFV	60,000	very high viscosity HEMC with delayed hydration; high water retention/ open time at low dosage rates
WALOCEL™ M-20678	80,000	ultra high viscosity HEMC; high water retention/open time at low dosage rates



Tile Grouts

Product	Viscosity MPA • S	Properties
WALOCEL™ MK 3000 PF	3,000	excellent workability
WALOCEL™ MKW 4000 PF 01	4,000	easy workability
WALOCEL™ MKX 6000 PF 01	6,000	good workability and application properties

Self-Leveling Underlayments

Product	Viscosity MPA • S	Properties
METHOCEL™ CP 7331	100	less segregation, good flow
METHOCEL™ 327	300	less segregation, good flow
WALOCEL™ MK 400 PF	400	less segregation, good flow
WALOCEL™ MKW 2000 PF 01	2,000	easy workability

Mortars for EIFS/Skim Coat

Product	Viscosity MPA • S	Properties	Mortars for EIFS	Decorative renders	Skim coats
WALOCEL™ MKW 4000 PF 01	4,000	easy workability		•	
WALOCEL™ MKX 6000 PF 01	6,000	good workability and application properties	•		
WALOCEL™ MKS 10000 PF 60	10,000	excellent open time, slip resistance			•
WALOCEL™ MKW 10000 PP 01	10,000	good air void stabilization		•	
WALOCEL™ MKX 15000 PF 01	15,000	good air void stabilization, sag resistance			•
WALOCEL™ MKW 15000 PP 30	15,000	good air void stabilization, sag resistance	•		
WALOCEL™ MKW 20000 PP 20	20,000	good air void stabilization	•		
WALOCEL™ MKX 20000 PP 10	20,000	easy workability	•		
METHOCEL™ 327	20,000	multipurpose	•		
WALOCEL™ MKX 25000 PF 25 L	25,000	high yield, good workability	•		
WALOCEL™ MKX 45000 PP 10	45,000	high water retention			•
WALOCEL™ MKX 45000 PF 20 L	45,000	good workability	•		

Cement-Based Plasters

Product	Viscosity MPA • S	Properties
WALOCEL™ MKW 15000 PP 30	15,000	air void stabilization, good standing strength
WALOCEL™ MKW 20000 PP 01	20,000	air void stabilization, good standing strength
WALOCEL™ MKW 20000 PP 20	20,000	air void stabilization, easy workability
WALOCEL™ MKW 20000 PP 30	20,000	air void stabilization, sag resistance
WALOCEL™ MKW 20000 PP 40	20,000	air void stabilization, high yield
WALOCEL™ MKW 30000 PP 01	30,000	air void stabilization
WALOCEL™ MKW 30000 PP 10	30,000	air void stabilization, easy workability
WALOCEL™ MKW 30000 PP 30	30,000	air void stabilization, sag resistance

Gypsum-Based Building Materials

Product	Viscosity MPA • S	Properties	Gypsum plasters	Gypsum-based fillers
WALOCEL™ MKX 20000 PF 40	20,000	reduced lump formation		●
WALOCEL™ MKX 30000 PF 60 E	30,000	easy workability, high yield		●
WALOCEL™ MKX 35000 PP 35	35,000	multipurpose	●	
WALOCEL™ MKX 40000 PF 20	40,000	reduced lump formation	●	
WALOCEL™ MKX 70000 PP 01	70,000	high water retention	●	
WALOCEL™ MKX 70000 PP 40	70,000	easy workability, high water retention	●	

Cement and Cement-Fiber Extruded Materials

Product	Viscosity MPA • S	Properties
WALOCEL™ MKX 60000 PF 01	60,000	high water retention
WALOCEL™ VP-M-7701	70,000	high water retention, high heat stability
WALOCEL™ M-20678	80,000	high water retention, high heat stability



Latex-Based Systems (ready-to-use)

Product	Viscosity MPA • S	Properties	Silicate renders	Plasters	Tile adhesives	Tape joint compounds
WALOCEL™ MT 6000 PV	6,000	multipurpose				•
WALOCEL™ MW 6000 PFV	6,000	delayed solubility		•	•	
WALOCEL™ MW 15000 PFV	15,000	delayed solubility		•	•	
WALOCEL™ MW 40000 PFV	40,000	delayed solubility		•	•	
WALOCEL™ CRT 10000 PV	10,000	delayed solubility	•			
WALOCEL™ CRT 40000 PV	40,000	delayed solubility	•			
METHOCEL™ 240 S	20,000	delayed solubility				•
METHOCEL™ 250 S	25,000	delayed solubility				•
WALOCEL™ MK 25000 PFV	25,000	delayed solubility				•
WALOCEL™ MT 30000 PV	30,000	delayed solubility				•
METHOCEL™ J 75 MS-N	40,000	delayed solubility			•	•
CELLOSIZETM QP 52000H TJC	40,000	delayed solubility				•
CELLOSIZETM QP 100 MH	50,000	delayed solubility			•	



Redispersible Powders

DLP and DRYCRYL™ dispersion powders from Dow Construction Chemicals offer a variety of useful possibilities for building materials. Special properties of dispersion powder for mineral bound materials are:

- Improved workability
- Excellent adhesive strength on different surfaces
- Improved open time
- Hydrophobicity and abrasion resistance
- One-part system convenience (DRYCRYL™)

Redispersible Latex Powders

DOW™ Latex Powders (DLP) and DRYCRYL™ DP-2903

Product	Composition	MFFT (°C) ⁽¹⁾	Features
DLP 211	VAc/E-Copolymer	3	medium hard, multipurpose
DLP 212	VAc/E-Copolymer	0	flexible, multipurpose
DLP 2000	VAc/E-Copolymer	3	medium hard, multipurpose
DLP 2001	VAc/E-Copolymer	2	medium hard, improved water resistance
DLP 2101	VAc/E-Copolymer	0	flexible, multipurpose
DLP 2020	VAc/E-Copolymer	3	medium hard, thixotropic
DLP 2141	VAc/E-Copolymer	0	flexible, hydrophobic
DRYCRYL™ DP-2903	100% Acrylic	–	one-part system, dry powder

⁽¹⁾Minimum Film Formation Temperature
Remarks: Moisture < 2%

Product	MFFT (°C) ⁽¹⁾	Tile adhesives	Tile grouts	EIFS	Cement-based Plasters	Masonry mortar for ALC	Self-leveling underlayments	Gypsum based crack fillers	Repair mortars
DLP 211	3	• •			•	•	•	•	
DLP 212	0	•	•	• •	•	•		• •	•
DLP 2000	3	• •		•				•	
DLP 2001	2	• •			• •	•	• •		
DLP 2101	0		• •	• •	• •				• •
DLP 2020	3	• •							
DLP 2141	0		• •	• •					
DRYCRYL™ DP-2903	–		• •	• •					• •

⁽¹⁾Minimum Film Formation Temperature

- • = highly recommended
- = recommended



Better Building Starts Here



In the U.S.

dowconstructionchemicals.com

The Dow Chemical Company

Dow Construction Chemicals

Midland, MI 48674

Call: 215-592-3000.

This document is designed as a general overview of Dow construction chemicals products. always review specific product literature/safety data sheets for current information. Please contact your local Dow construction chemicals representative for detailed technical information applicable to individual requirements. Note: any photographs of end-use applications in this document represent potential end-use applications but do not necessarily represent current commercial applications, nor do they represent an endorsement by Dow of the actual products. Further, these photographs are for illustration purposes only and do not reflect either an endorsement or sponsorship of any other manufacturer for a specific potential end-use product or application, or for Dow, or specific products manufactured by Dow.

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.

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the customer is responsible for determining whether products and the information in this document are appropriate for the customer's use and for ensuring that the customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. the product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. the claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "company" mean the Dow legal entity selling the products to customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

Printed in the U.S.A.

[®]™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.

Form Number: 832-00165X - 0817 CDP
Published August 2017