

Polyvinyl Acetate Dispersions

Mowilith DMC2®

Base

Aqueous dispersion of a copolymer based on vinyl acetate and maleic acid di butylester.

Properties

Dispersion:

- solids content: 54-56%
- particle diameter: 0.3-2.0 µm
- viscosity (Brookfield, 20 U_{pm}): 5000-12000 mPas
- pH: 4-5
- density: approx. 1.05 g/cm³
- min. film forming temperature: approx. 5°C

Film:

- thermoplastic
- transparent, flexible, light-resistant
- tensile strength at break at 20°C: approx. 5.5 N/mm²
- elongation at break at 20°C: approx. 425%
- glass transition temperature (T_g): approx. 11°C

Use

As a binder for paints and adhesives, especially for paper and textiles.

Application

Dilutable with water, frost-sensitive, do not use it below 5°C.

Safety

Please observe safety information on the safety data sheet.

Storage

Keep containers closed, when not using the product. Store at constant temperature between 5°C and 25°C.

Size

Bottles in 1l

Mowilith DMC2® is a registered trade mark of Celanese Emulsions GmbH.

Lascaux Acrylic Dispersions

Medium for Consolidation

Base

Finely dispersed, aqueous dispersion of an acrylic copolymer.

Properties

- dries to a clear and flexible film
- light and resistant to age
- excellent penetrating power
- solids content: 25%
- MFT (Minimum filmformation temperature): approx. 4°C
- pH: approx. 8.5

Solubility

Dispersion dilutable with water. Film soluble in esters, aromatics, acetone, ethyl methyl ketone.

Applications

The Medium for Consolidation has been developed in cooperation with the Swedish National Heritage Board for the consolidation of paintlayers in medieval polychromy on wood.

The Medium for Consolidation has excellent penetrating power due to its low viscosity. This allows for the safe

and efficient consolidation of loose and chalking paint layers, even on water sensitive surfaces such as gilding or thin layers of distemper. These can be consolidated without swelling or spotting on wooden or textile supports.

The concentration of the medium can be adjusted by addition of distilled water. Prior to application of consolidant white spirit can be used as wetting agent.

Excess Medium of Consolidation can be removed completely with acetone or xylol after a drying time of approx. 24 hours.

The Medium for Consolidation has been successfully used on various objects in numerous Swedish restoration studios.

Safety

Please observe safety information on the safety data sheet.

Storage

Keep containers closed, when not using the product. Store at constant temperature between 5°C and 25°C. Undesired sediments which might appear during storage, can be strained with a filter before application.

Size

Bottles in 250ml, 500ml and in 1l.

Literature

Hedlund H.P., Johansson M., 'Prototypes of Lascaux's Medium for consolidation, Development of a new custom made polymer dispersion for use in conservation', *Restauro* 6/2005, 432-439.

Plextol D 360, Plextol D 498, Plextol B 500, Acronal 500 D

Base

Plextol D 360

Aqueous pure acrylic dispersion of a copolymer based on butyl acrylate and methacrylate.

Plextol D 498

Aqueous pure acrylic dispersion of a copolymer based on butyl acrylate and methacrylate.

Plextol B 500

Aqueous pure acrylic dispersion of a copolymer based on butyl acrylate and methacrylate.

Acronal 500 D

Aqueous dispersions of copolymer based on acrylic acid ester and vinyl acetate.

Properties

- Thermoplastic, high transparency, lightfast resistant.

Solubility

Dilutable with water.

Use

Binder for consolidation primers and paint layers.

Plextol D 360

For flexible applications, soft film, high weathering stability.

Plextol D 498

Medium polymer hardness (harder than Plextol B 500), good water glass resistance and weathering stability.

Plextol B 500

Medium polymer hardness, good frost resistance.

Acronal 500 D

Very flexible film.

Application

Dilutable with water, frost-sensitive, don't use it below 5°C.

Safety

Please observe safety information on the safety data sheet.

Storage

Keep containers closed, when not using the product. Store at constant temperature between 5°C and 25°C. Undesired sediments which might appear during storage, can be strained with a filter before application.

Size

Bottles in 1l

Name	Plextol D 360	Plextol D 498	Plextol B 500	Acronal 500 D	
Dispersion:					
Solid content	60 ± 1	50 ± 1	50 ± 1	50 ± 1	%
Average particle diameter	0.25	0.15	0.15	0.2	µm
pH-value	8.0 ± 1.0	9.0 ± 1.0	9.5 ± 0.5	3.5 - 4.7	
Viscosity (Brookfield, 6 Upm)	500 - 4000	3000 - 10000	1000 - 5000	45 - 80 (100 UpM)	mPas
Density	1.05	1.05	1.07	1.06	g/cm ³
Surface tension	36	44	43	-	mN/m
Min. film forming temperature	0	5	7	<1	°C
Film:					
State of film	transparent, adhesive	transparent, non-adhesive	transparent, slightly adhesive	transparent, slightly adhesive	
Glass transition temperature	-8	13	9	-13	°C
Hygroscopicity (24)	12	12	15	70	%
Tensile strength at break	-	4	3	1.5	N/mm ²
Elongation at break	>1000	400	500	2500	

Disclaimer:

The information provided above is given to the best of our knowledge and is based on our current research and experience. It does not absolve the artist from the responsibility of first testing the suitability of our products for the substrate and specific use conditions he or she has in mind. This technical sheet will become invalid with any revised edition. The latest update is always found on our website.