

MONTOCRYL

Two-component, acrylic based, anchoring mortar



WHERE TO USE

Montocryl is a two-component, rapid-setting mortar used for anchoring bolts, concrete reinforcement, etc. in rock and concrete, even at temperatures down to -15°C .

Montocryl is suitable for assembling concrete elements, both in sleeves and in core drilled holes.

Montocryl can also be used for casting minor foundations where a dense, rapid-setting mortar is needed.

TECHNICAL CHARACTERISTICS

Montocryl is based on methylmetacrylat with cement as filler. The hardening agent is incorporated in the filler.

Montocryl complies with the principles of EN 1504-9 (*"Products and systems for reparation of concrete structures: Definitions, requirements, quality control and evaluation of compliance. General rules for the use of products and systems"*), and the requirements of EN 1504-6 (*"Anchoring and reinforcement rods"*).

APPLICATION PROCEDURES

Preparation of the substrate:

The concrete or rock must be clean and dry, free of dust, oil and other contaminants. Air and ground temperature must be minimum -15°C during application and setting.

Preparation of the product:

Pour comp. A into comp. B and mix with a slow drill and mortar whisk for approx. 3 minutes until the product is totally homogeneous. Do not dilute the product.

Application of the product:

For anchoring bolts

We recommend drilling a hole with diameter minimum 10 mm wider than the bolt to be used. Thoroughly clean the hole and pour **Montocryl** into the hole by using a funnel or equivalent. Press bolt into place and secure until the mortar is sufficiently set. The drill hole should be dry when inserting the bolt.

CLEANING

Wash and clean all tools immediately after use with **Spesialtynner** or ethanol. Once set, the product can only be removed mechanically.

CONSUMPTION

Anchoring: - depends on diameter of drill hole, bolt and anchoring length. See the table below for guidance.

Bolt (Ø - mm)	Hole (Ø - mm)	Depth (mm)	Consumption per bolt (kg)
16	26	500	0,37
20	30	500	0,44
24	34	500	0,51
32	42	500	0,65

Foundation: approx. 2.3 kg per litre.

PACKAGING

13.9 kg set: component A = 1.7 kg + component B = 12.2 kg.

STORAGE

6 months in unopened original packaging. Store in a cool dry place. Protect from heat.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

Montocryl is a two-component PMMA anchoring mortar product for strengthening concrete by installing reinforcing steel (rebar) in building and civil engineering works. The product complies with specifications in EN 1504-6

PRODUCT IDENTITY	Component A	Component B
Colour:	transparent	grey
Consistency:	liquid	powder

APPLICATION DATA	
Mixing ratio:	1.7 : 12.2 - component A : component B
Colour of mixture:	grey
Consistency of the mixture:	dense fluid
Density of the mixture:	2 250 kg/m ³
Application temperature range:	-15°C to +20°C
Pot life:	approx. 10 minutes

FINAL PROPERTIES

Temperature/time:	+20 °C					-15 °C			
	1 hour	2 hours	3 hours	24 hours	7 days	2 hours	3 hours	24 hours	7 days
Compressive strength (EN 12190):	80 N/mm ²	85 N/mm ²	87 N/mm ²	93 N/mm ²	98 N/mm ²	40 N/mm ²	50 N/mm ²	66 N/mm ²	85 N/mm ²
Flexural strength (EN 196-1):	21 N/mm ²	24 N/mm ²	24 N/mm ²	24 N/mm ²	27 N/mm ²	19 N/mm ²	23 N/mm ²	26 N/mm ²	28 N/mm ²
E-modulus:	15 000 N/mm ²								
Adhesion to concrete (EN 1542):	3.5 N/mm ² (fracture in concrete)								
Adhesion to sandblasted steel (EN 1542):	5.1 N/mm ² (fracture in adhesive)								
Shrinkage:	0.12 mm/m (7 days)								
Final setting time:	7 days								

Performance characteristics	Test method	Requirements according to EN 1504-6	Product performance
Pull-off strength:	EN 1881	Displacement < 0.6 mm at load of 75 kN	< 0.2 mm
Chloride ion content:	EN 1015-17	< 0.05 %	< 0.05 %
Glass transition temperature:	EN 12614	> 45°C or 20°C above the maximum ambient temperature of the structure in service, whichever is higher	≥ 82°C
Creep under tensile load:	EN 1544	Displacement < 0.6 mm after continuous loading of 50 kN after 3 months	< 0.55 mm
Reaction to fire:	Euroclass	Value declared by manufacturer	NPD

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above - information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the technical data sheet, available from our web site www.mapei.no

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.no

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.

10009-6-2023-gbxno

Any reproduction of texts, photos and illustrations published here is prohibited and subject to prosecution

