

TECHNICAL INFORMATION
COBBLESTONE MORTAR



COBBLESTONE MORTAR

Art.-No.: 52327016, anthracite grey

Art.-No.: 5232....RAL

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Important Information:

Please consider our General Terms and Conditions and the general notes of the Technical Information Sheet! No liability is accepted for any errors! The information is provided to our best knowledge and experience. This information is, however, no warranty for any properties of the material. We provide this information without obligation, also regarding the rights of third parties. The user has to make sure that the material is appropriate for the respective application.

1 Main characteristics / Fields of application

Cobblestone mortar...

- belongs to the group of solvent-free, pluri-component, reactive systems
- consists of two components which - through chemical interaction - form a duroplastic compound and cannot be thermally plastified any more
- is suitable for filling the structure between cobblestones (joints between stones) and different vertical heights (height adjustment) of the stones. Cobbled mortar enables even surfaces for subsequent marking applications
- is formulated with excellent elasticity in order to compensate movements of the cobbled pavement and avoid or retard crack formation
- leveling compound for milled and burnt down asphalt pavements

2 Technical Data

Color	Anthracite grey, approx. RAL 7016, other colors on request
Density	approx. 1.86 kg/l +/- 0.1 kg/l depending on color
Potlife	approx. 5 – 10 minutes, depends on hardener quantity added and air, material, and surface temperatures;
Solid content	min. 50%
Overrollability / curing time	approx. 20 – 25 minutes, depends on the climatic conditions. In general the markings' overrollability must be checked before exposing them to traffic impact..
Solvent for cleaning	Special cleaner for marking machines (Art.-No.: 3086)
Storage stability	6 months; unmixed in sealed original packaging and sheltered from frost and direct sun exposure!
Standard packaging	Cobblestone mortar: Tin foil container with 10/15/25 kg filling weight Hardener powder: PE-bags – filling weight corresponds to coldplastic quantity and mixing ratio Attention: all hardener types are organic peroxides - they must be separately packaged, transported and stored from the coldplastic in special containers (special cartons and boxes).
Identification	The regulations and instructions concerning appropriate transport, handling, storage, first aid & measures, toxicology and ecology are stated in detail in our material safety data sheets! The instructions stated on the product label and in the MSDS must be followed
Surface temperature	min. + 5°C
Processing temperature	+ 5°C to + 45°C
Relative humidity	max. 75% (dew point spreadsheet has to be regarded)
Layer thickness	> 3,0 mm
Theoretical consumption	approx. 1.86 kg/m ² for 1 mm layer thickness, the actual consumption depends on the applied layer thickness, type, shape and state of the surface.

3 Mixture ratio / Application techniques / Hardener

Product	Art.-No.	Technique	Hardener
Cobblestone mortar, anthracite grey Summer formulation Winter formulation Cobblestone mortar RAL	52327016 52327016W 5232....RAL	Open mixture system Manual application (trowel or other suitable tools)	Hardener powder
Mixture ratio:	Base component B (Cobblestone mortar)	:	Hardener powder (BPO)
		=	100 : 1
Between October and April Cobblestone mortar is delivered in winter formulation, due to weather conditions			

4 Processing instructions

4.1 Preparation of material and application technique

Prior to application the Cobblestone mortar must be stirred in its original container until of even consistency. Then the hardener (powder) is mixed with the base component at the indicated mixing ratio, while using an appropriate stirring device.

Never prepare more material with hardener than is needed for the application (observe potlife).

Coldplastic mortar (reactive systems) is solvent-free and must be applied without adding solvent.

Cleaning must be done before the material completely cures using special cleaner for marking machines (Art.-No.: 3086).

4.2 Optimizing of application properties

The application properties and reactivity of the material depend upon the temperature of the Cobblestone mortar, air and surface. Proper storage conditions improve application conditions.

To a limited extent viscosity can be reduced:

To reduce viscosity (e.g. low material, air and surface temperatures) add about 1 % condenser (Art.-No.: 3044).

Attention: Add only the required quantity of agent, otherwise viscosity or settle properties can change. Never prepare more Cobblestone mortar, mixed with condenser, than is needed for the application.

5 Surfaces / pretreatment

5.1 General information

The surface must be dry, clean and free from grease, oil, loose gravel and other contaminations. The surface and any existing old markings must be checked for their carrying capacity and compatibility with the material to be applied. In case of doubt, applications and adhesion tests are required. Old markings need to be removed with appropriate mechanical procedures

5.2 Cobbled pavement

All types of cobbled pavements (natural and artificial stones) are moveable surfaces. To ensure durability of markings, cobbled pavements must be pretreated. Surfaces have to be primed with 2-component primer B55 for cobbled stone (Art.-No.: 8011). Afterwards Cobbled mortar must be extensively applied, the mortar surface should be approx.. 2 – 3 cm overhanging, compared with the marking. After curing of Cobbled mortar, marking application

can follow (for more information see Technical Information of 2-component primer B55 for cobbled stone). No guarantee is given in cases of crack formation or spillings of the marking combined with abrasive wear. Colored stones (for concrete pavements) or raised pavement marker (for natural stones) are options to cobblestone markings.

6 Application techniques

Cobbled mortar (mixed with hardener powder) is applied by trowel or other suitable tools evenly onto the surface with a maximum thickness of 5 mm. Joints that need more than 5 mm mortar consumption have to be pre-filled with 2-component primer B55 for cobbled stone.