

Seryap[®] 132 (MasterCrete[®] TIL 132)

Cement-Based Ceramic and Marble Adhesive (Coarse Gradation)

Material Description

Seryap[®] 132 is a cement-based, coarse gradation, highly stable adhesive used for bonding ceramics and marbles.

Complies with the EN 12004 - CIT class.

CI: Normally hardening cement based adhesive

T: With reduced sliding

Areas of Application

- Indoor and outdoor areas for vertical and horizontal applications
- In the adhesion of tiles, ceramics, marbles, decorative tiles or press bricks, and cotto tiles to cement based surfaces.

Characteristics and Benefits

- Easy to prepare and apply.
- Long process time.
- No sliding in vertical applications.
- High adhesion property


Processing Method

(A) Preparation of Substrate

Application surface has to be strong, dry, bearing, dustless, clean, and also in balance. Surface must be cleaned off all kinds of oil, grease, rust, and paraffin traces that can weaken adherence and no loose particles must be present. Disordered surface with 5 to 20 mm depth must be repaired with MasterCrete[®] S88 C repair mortars two days before the application. If the application surface is over +25°C, then it must be moisturized.

(B) Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. Seryap[®] 132 is slowly added to the water and mixed with a 400-600 RPM mixer for 3-5 minutes until a homogenous and lump-free mixture is obtained. After resting it for approximately 3-5 minutes and mixing again for 30 seconds, the material is ready to use.

Technical Properties		
Structure of the Material	Mineral fillers, synthetic additives and special cement	
Color	Gray, White	
Tensile Adhesion Strength	≥0.50 N/mm ² (28 days)	
Application Thickness	Min. 4 mm Max. 15 mm	
Time to Grouting	After 24 hours	
Application Substrate Temperature	+5°C to +25°C	
Service Temperature	-20°C to +80°C	
Slaking Time	3-5 minutes	
Working Time	2 hours	
Open Time	20 minutes	
Slip	≤ 0.5 mm	
Water Retention	Min. 90%	
Walkable After	24 hours	

The above values are given at +23 °C and 50% relative humidity. Higher temperatures shorten the times, while lower temperatures extend them.

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Mixing Ratios

Seryap® 132	Amount of Mixture Water
For 1 kg powder	~0,22 L
For 25 kg bag	~5,50 L

(C) Processing

1 mm Seryap® 132 is applied on application surface with the flat side of trowel. In an area that can be covered in 20 minutes, period of open waiting, Seryap® 132 is applied by serrated side of trowel in single direction in uniform thickness. In the adhesion of ceramics or marbles with different thicknesses, to repair the disorder on application surface, it is suggested to apply 1 mm mortar under each ceramic or granite. When applying ceramics or marbles to the place of application, ceramics or marbles are floated on mortar to enable full contact of adhesion mortar. Suggested joint gap according to applied ceramic or tile dimension is left and the application is finished. To fill the left joint gaps, MBT Tech joint grouts must be used. Grouting of joints can be realized after approximately 24 hours.

Recommended Notched Trowel Sizes

Tile Dimensions	Notched Trowel Size	Mortar Bed Thickness
Up to 30 cm x 30 cm	8 mm	~ 3 mm
Over 30 cm x 30 cm	10 mm	~ 4 mm

Recommended Joint Width

Tile Dimensions	Joint Width
Up to 5 cm x 5 cm	3 mm
Up to 15 cm x 15 cm	4 mm
Over 15 cm x 15 cm	6-8 mm

Consumption

Approx. 1.33 kg/m² per 1 mm thickness

Seryap® 132	Notched Trowel Size and Consumption (kg/m ²)	
	8 mm	10 mm
25 kg	5.31	6.64

Adhesive Usability Test (Open Time)

Press a finger onto the applied adhesive surface. If adhesive sticks to the finger, tiling can be continued. If the finger remains clean, the open time of the adhesive has expired. In this case, the adhesive must be removed from the surface and replaced with fresh material.

Point to Consider

- If the ambient or substrate temperature is below +5°C or above +25°C during the application of Seryap® 132, suitable conditions must be awaited. Seryap® 132 should not be applied in extremely hot, rainy, or windy weather.
- The spread thickness of Seryap® 132 must not exceed 15 mm (minimum 4 mm). Ceramics with high water absorption should be pre-soaked in water before application.
- Under no circumstances should water or new material be added to a Seryap® 132 mixture that has already started to set.

Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After Seryap® 132 is hardened, it can only be removed from the surface mechanically.

Packaging

25 kg polyethylene-reinforced kraft bags.

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Shelf Life

12 months if stored according to manufacturer's instructions in unopened container. Opened packages have to be stored by tightly sealing the bag, and must be used in one week.

Storage

Must be stored in unopened original packing, and in cool and dry environment protected from freezing. In short-term storing, maximum 3 pallets can be stowed on top of each other and delivery has to be according to first in first out system. For long-term storage, pallets must not be stacked.

Health and Safety

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.


Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş. is only responsible for the quality of the product MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş. is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding

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DOP NO: 2201002	
TS EN 12004 - C1T	
Seryap® I32 (MasterCrete® TIL I32)	
Kayma Özelliği Azaltılmış Normal Sertleşen İç ve Dış Kullanım için Uygun Çimentolu Yapıştırma	
<i>(Normal hardening cement adhesive for Internal and External use with reduced slip feature)</i>	
Yangına Karşı Tepki (Reaction To Fire)	A1
Başlangıç Çekme Yapışma Kuvveti (Initial tensile adhesion strength)	≥ 0,5 N /mm ²
Isı ile yaşlandırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after heat ageing)	≥ 0,5 N /mm ²
Suya daldırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after water contact)	≥ 0,5 N /mm ²
Donma-çözünme çevriminden sonra çekme yapışma kuvveti (Tensile adhesion strength after freeze-thaw cycles)	≥ 0,5 N /mm ²
Kayma (Slip)	≤ 0,5 mm
Açıkta durma zamanı:Yapışma mukavemeti(20 dakika sonra) (Open Time :Tensile adhesion strength(after not less than 20 minutes)	≥ 0,5 N /mm ²

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