

Astar A[®] (MasterCrete[®] TIL PRI 300)

Adhesion Improving Primer for Absorbent Surfaces

Material Description

Astar A[®] is a modified vinyl acetate-acrylic copolymer based, single-component primer for absorbent surfaces.

Complies with the EN 1504-2

Areas of Application

- Indoor and outdoor areas for vertical and horizontal applications.
- In the protection of absorbent surfaces like gypsum-plasterboard, gypsum-plaster, gas concrete, plaster, lime plaster, chipboard, etc. from humidity.
- To extend the working time of leveling screeds and similar grouts, improve substrate adhesion, and minimize air bubbles.
- In priming of gypsum-plasterboard, gypsum plaster, gas concrete, plaster, lime plaster, and brick walls to prevent cracks because of rapid water absorption of surface before gypsum plaster application.
- Before the application of ceramic or marble to absorbent surfaces like gypsum plaster, gas concrete, lime plaster, and chipboard to prevent rapid loss of adhesive mortar water and prevent detachment of the covering over time.
- To improve the dust resistance of screeds under carpets.
- Used as a primer before wallpaper and paint applications.

Characteristics and Benefits

- Moisture resistant.
- Prevents cracking caused by rapid water loss in cement-based coatings on absorbent surfaces.
- Easy to apply.
- Provides high adhesion.
- Does not contain solvents and it is odorless. Safe for use in enclosed areas.

Processing Method

(A) Preparation of Substrate

The application surface must be sound, dry, load-bearing, dust-free, clean, and level.

It must be thoroughly cleaned of any oil, grease, rust, or paraffin residues that may reduce adhesion, and no loose particles should remain on the surface.

(B) Mixing

Astar A[®] is diluted with the specified amount of water indicated in the application method and mixed until uniform.

(C) Processing

Spread the material evenly, preventing ponding.

Technical Properties

Structure of the Material	Modified special vinyl acetate - acrylic copolymer	
Color	Light blue	
Density	0.95 - 1.05 kg/L	
Consistency	Liquid	LX
Application Substrate Temperature	+5°C to +30°C	
Service Temperature	-20°C to +80°C	
Drying Time	~2 hours	
Recoat Time	~2 hours	
Other Applications	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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Before paint and wallpaper applications, on absorbent surfaces (such as gypsum-plasterboard, gypsum plaster, gas concrete, chipboard):

- Astar A[®] is applied by brush or roller after diluting 1:2 with water.
- After performing a drying test, subsequent applications can be started.
- Consumption: 80–125 g/m² diluted with water.

On leveling screeds and similar screeds, to extend workability, improve adhesion, and reduce air bubbles:

- Astar A[®] is applied by brush or roller after diluting 1:1 with water.
- After performing a drying test, subsequent applications can be started.
- Consumption: 100–150 g/m² diluted with water.

Before ceramic applications, on absorbent surfaces (such as gypsum-plasterboard, gypsum plaster, gas concrete, chipboard):

- Astar A[®] is applied by brush or roller; the first coat diluted 1:1 with water, the second coat applied concentrated.
- After performing a drying test, ceramic applications can be started after 24 hours.
- Consumption: 125–175 g/m² diluted with water.

Before gypsum plaster applications, to prevent cracks caused by rapid water absorption (on gypsum-plasterboard, gypsum plaster, gas concrete, plaster, and brick walls):

- Astar A[®] is applied by brush or roller; the first coat diluted 1:2 with water, the second coat diluted 1:1 with water.
- After performing a drying test, subsequent applications can be started.
- Consumption: 100–150 g/m² diluted with water.

On carpet underlay screeds, to reduce dusting:

- Astar A[®] is applied by brush or roller; the first coat diluted 1:3 with water, the second coat diluted 1:1 with water.
- After performing a drying test, subsequent applications can be started.
- Consumption: 100 g/m² diluted with water.

These values may vary depending on substrate absorbency, ambient temperature, and humidity. Other applications can be started 24 hours after Astar A[®] application.

Consumption

Approximately 80–175 g/m² depending on surface absorption and roughness.

Points to Consider

- If the environmental temperature is below +5°C or above +30°C during Astar A[®] application, wait until suitable conditions are reached.
- Prevent the primer from getting dirty during and after application.

Cleaning of Tools

All the tools and equipment must be cleaned with water after the application.

Packaging

30 kg plastic drum

Shelf Life

12 months from the production date if stored under appropriate conditions. Astar A[®] freezes below 0°C. Opened packages must be tightly sealed and stored under appropriate conditions, and used within one week.

Storage

Must be stored in unopened original packaging in a cool and dry environment, protected from frost. For short-term storage, maximum 3 pallets can be stacked on top of each other, and delivery must be made on a first in, first out basis. For long-term storage, pallets must not be stacked on top of each other.

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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 the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

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Astar A® (MasterCrete® TIL PRI 300)	
TS EN 1504-2 1.2, 5.2 Emrenye Uygulaması 1.2, 5.2 Impregnation application (I)	
Beton için yüzey koruma sistemleri Surface protection systems for concrete Emrenye uygulaması Impregnation application	
Aşınmaya Direnç (Abrasion Resistance)	NPD
Kapiler Su Emme ve Su Geçirgenliği (Capillary Absorption and Permeability to water)	w<0,1 kg/m ² .vh
Çarpmaya Direnç (Impact Resistance)	NPD
Çekip koparma deneyi yoluyla yapışma dayanımı (Adhesion strength by pull-off test)	Trafik yükü olmadan yatay ≥ 1,0 N/mm ² (Horizontal without trafficking)
İşleme derinliği (Depth of penetration)	NPD
Yangına karşı tepki (Reaction to fire)	E
Tehlikeli maddeler (Dangerous substances)	Madde 5.3'e uygun (Comply with clause 5.3)

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