

# Astar 303<sup>®</sup> (MasterCrete<sup>®</sup> TIL PRI 303)

Condition Improving Primer for Shiny and Non-absorbent Surfaces

## Material Description

**Astar 303<sup>®</sup>** is a single-component primer based on modified special styrene-acrylic copolymer, designed for shiny and non-absorbent surfaces.

Complies with the EN 1504-2

## Areas of Application

- Indoor and outdoor areas for vertical and horizontal applications.
- In outer areas for pavements like ceramic, glazed press brick, natural and composed stones.
- In inner areas with **FMörtel<sup>®</sup> SI** application after priming of non-absorbent surfaces like abraded PVC or metal that are firmly adhered to the substrate.
- For perfect adherence before **MasterCrete<sup>®</sup> N 600** applications on shiny exposed concrete surfaces.
- To extend the working time of leveling screeds and similar grouts, increase ground adherence, and minimize air bubbles.
- Used as primer before plaster or ceramic adhesion processes on wooden chipboards in inner areas.

## Characteristics and Benefits

- Single-part.
- Solvent-free and environmentally friendly.

## 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 could impair adhesion, and be free of loose particles.

### (B) Mixing

**Astar 303<sup>®</sup>** should be mixed with a 400–600 RPM mixer for 3–5 minutes until a homogeneous mixture is obtained.

### (C) Processing

Use a sheepskin roller or, without exceeding the maximum consumption, a small-pored textured roller as a priming tool. Spread the material evenly, avoiding ponding. The thickness of each coat must not exceed 200 microns. When the primer dries, a white, non-scratch, and sandy film layer is obtained. The application is made on this film layer.

## Consumption

Approximately 120-180 g/m<sup>2</sup> depending on surface absorbency and roughness.

Technical Properties		
Structure of the Material	Modified special styrene acrylic copolymer	LX 
Color	White	
Density	1.30 -1.32 kg/L	
Consistency	Brush Consistency	
Application Substrate Temperature	+5°C to +30°C	
Drying Time	~3 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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## Points to Consider

- Astar<sup>®</sup> 303 is not suitable for structures with continuous exposure to water.
- If the environmental and substrate temperature is below +5°C or above +30°C during the application of Astar<sup>®</sup> 303, wait until suitable conditions are provided.
- Prevent the primer from becoming contaminated during and after the application.

## Cleaning of Tools

All the tools and equipment must be cleaned with water after the application. After Astar 303<sup>®</sup> is hardened, it can only be removed from the surface mechanically.

## Packaging

5 kg plastic bucket

## Shelf Life

12 months after the production date under appropriate storing conditions. Astar 303<sup>®</sup> freezes below 0°C. Opened packages have to be stored by tightly sealing the cover 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. In long-term storing, the pallets must not be stowed on top of each other.

## 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.

## Contact

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DOP NO: 1401004	
Astar 303 <sup>®</sup> (MasterCrete <sup>®</sup> TIL PRI 303)	
TS EN 1504-2 1.2, 5.2 Emprenye Uygulaması 1.2, 5.2 Impregnation application (I)	
Beton için yüzey koruma sistemleri Surface protection systems for concrete Emprenye 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 <sup>2</sup> .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 <sup>2</sup> (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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