



BOYTORUN KİMYA SANAYİ A.Ş.

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# Boydur® M12

MMA-Based Fast-Curing Floor Repair, Anchoring and Coating Mortar

MMA-Based · Solvent-Free · Two-Component · Reactive Floor Mortar

~1 Hour

Curing Time

≥ 34 MPa

Compressive Strength

Repair · Anchor ·  
Coating

One System, Multi-Purpose

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## 01 PRODUCT DESCRIPTION

Boydur® M12 is a two-component, MMA (Methyl Methacrylate)-based, solvent-free reactive floor mortar for use in both interior and exterior applications. It is designed for rapid and permanent repair of floor cracks and cavities, anchoring applications, and as a coating material for areas subjected to heavy traffic loads or intense chemical exposure.

Thanks to its short curing time, the treated area can be returned to service quickly after application. MMA technology ensures high performance even at low temperatures and can be applied as an industrial floor coating at a minimum thickness of 5 mm.

## 02 ADVANTAGES

- Extremely durable with long service life
- Fast curing — minimises operational downtime
- Easy and controlled application
- Local repairs can be carried out easily if damage occurs
- Flexes with the substrate, reducing the risk of cracking
- High resistance to atmospheric conditions

## 03 FIELDS OF APPLICATION

- Rapid repair of floor cracks and cavities
- Thin-layer industrial floor coatings



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- Anchoring and machine fixing applications
- Edge, corner and local floor reinforcement

- Rehabilitation of chemically and mechanically stressed areas

## 04 SECTORS & PROJECT TYPES

- Airports and apron areas
- Ports and logistics facilities

- Industrial plants, workshops and warehouses
- Car parks, bridges and heavy-traffic areas

- Military facilities
- Urban and intercity road applications

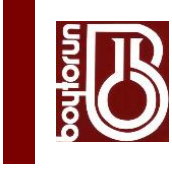
## 05 TECHNICAL DATA

Property	Value
System	Two-component (Resin + Filler)
Available Colours	Concrete grey, Green, Bordeaux, Black
Consumption	~ 2,000 kg/m <sup>3</sup>
Compressive Strength	34 N/mm <sup>2</sup>
Flexural Strength	24 N/mm <sup>2</sup>
Modulus of Elasticity (E-Modulus)	4,350 N/mm <sup>2</sup>
Ball Indentation Hardness	41 N/mm <sup>2</sup>
Curing Time (20°C)	~ 1 hour
Pot Life (Working Time)	~ 25 minutes (after mixing A+B)
Shelf Life	12 months (unopened, dry and cool storage)
Packaging	18 kg (A+B Set)

## 06 APPLICATION TYPES & PRINCIPLES

Boydur® M12 is an MMA-based, two-component reactive mortar for floor repair, anchoring and industrial floor coating, suitable for interior and exterior applications requiring fast curing and high mechanical strength.

### — 1. Floor Crack & Cavity Repair



### Surface Preparation

- The substrate must be free from moisture, contamination and loose particles, with structural integrity intact.
- On fresh concrete, the curing period must be fully completed before application.
- Damaged areas must be cut back to sound substrate; all loose and weak material must be completely removed.
- The surface must be cleaned by mechanical means.

### Priming

- Apply Boydur® A10 MMA-based primer to the prepared surface.
- Do not proceed until the primer has fully cured.

### Application

- Mix components A and B of Boydur® M12 thoroughly until homogeneous.
- Pour the mixed material into the crack or cavity; spread with a trowel or spatula to ensure complete filling.
- Level the surface flush with the surrounding floor.
- Ready for use after approximately 1 hour; suitable for heavy loads after full cure.

## — 2. Anchoring Applications

### Surface & Hole Preparation

- The substrate must be dry, clean and structurally sound.
- Drill holes to the required diameter and depth; clean all dust and loose particles from the hole interior.
- Cut back weak concrete zones to reach a sound substrate.

### Uygulama

- Apply Boydur® A10 primer where required and allow to cure fully before anchoring.
- Pour Boydur® M12 into the anchor hole; insert the anchor element and ensure the material encapsulates it completely.
- The ~1-hour curing time allows the anchor to be loaded within a short period.
- Suitable for street furniture, traffic equipment and industrial machine installations.

## — 3. Industrial Floor Coating

### Yüzey Hazırlığı

- The substrate must be free from loose particles, oil, dust and moisture.
- The surface must be mechanically roughened.
- Any existing cracks, cavities and joints must be repaired with Boytorun MMA-based repair mortars prior to coating.
- On fresh concrete, application must not begin before the curing period is complete.

### Application & Finishing

- Apply Boydur® A10 MMA-based primer to the entire surface and allow to fully cure before proceeding.
- Apply Boydur® M12 at a minimum thickness of 5 mm using a trowel, ensuring a uniform and level surface.
- After coating, apply Boydur® 520 or equivalent two-component MMA-based topcoat to complete the system.
- The floor is ready for use after approximately 1 hour.

## 07 COMMON APPLICATION MISTAKES

The following errors directly compromise product performance:



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- Applying to a wet or damp substrate
- Proceeding without cleaning the surface
- Covering weak or loose areas without cutting them back
- Omitting or insufficiently applying the primer
- Altering mix ratios or adding external chemicals
- Delaying application after mixing (exceeding pot life)
- Applying excessive thickness in a single pass on deep cavities
- Failing to observe minimum coating thickness in floor coating applications

## 08 GENERAL WARNINGS

- The substrate must be dry, clean and structurally sound prior to application.
- No chemicals other than those specified in the technical data sheet must be added to the product.
- Components must be applied immediately after mixing without delay.
- In very deep cavities, application may be carried out in successive layers.
- Floor coating applications require experience; contact technical support where necessary.

## 09 CERTIFICATIONS & STANDARDS

ISO 9001:2015

Quality Management System

ISO 14001:2015

Environmental Management System

Since 1965

Manufacturing Experience

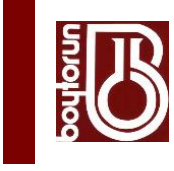
## 10 TECHNICAL SUPPORT & CONTACT

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*The information in this technical data sheet is based on current technical knowledge and application experience. Boytorun Kimya Sanayi A.Ş. reserves the right to make changes in line with ongoing R&D activities.*

*When a new technical data sheet is issued, the previous version becomes invalid. The company warranty is limited to material quality only.*