



## Surface Preparation Materials

- TamirArt 5-30
- Mastar 10
- Kalekim Astar
- Kalekim Dolgulu Astar
- İzolLine Astar

## 4001 TamirArt 5

### Repairing Mortar



#### Description

Indoor and outdoor rendering and levelling mortar walls, floors and ceilings in thickness from 1 to 5 mm.

#### Fields of Application

- Smoothing walls prior to ceramic tiles installation and painting.
- Repairing old, damaged renders, concrete.
- Smoothing foamed cement, concrete, brick walls.
- Filling hairy cracks.

#### Properties

- Easily trowellable.
- High flexural strength.
- High adhesion strength.

#### Application

- Substrates must be compact, free of dust, loose parts and clean from oils, grease, paint or adhesive residues (TamirArt 5 can also be applied to damp surfaces without any problem, but cure time will be slightly prolonged).
- It is advisable to wet highly absorbent substrates or better to apply Kalekim Astar or Kalekim Dolgulu Astar.

— Pour 25 kg. of TamirArt 5 into 5.5 - 6 litres of clean water slowly and mix to obtain a homogeneous paste free from lumps. (A low speed mixer is recommended to mix).

— Allow to stand for 5 - 10 minutes to mature. After remixing, the paste is ready for application.

— Apply TamirArt 5 with rendering machine flat trowel with a firm pressure to ensure a good adhesion.

— Pot life is 30 minutes, apply the mortar within this period.

— Unfavourable climatic conditions (high temperature, low humidity, wind, etc) can reduce this time to just a few minutes.

— Dispose mortars of which pot life is expired. Clean tools and hands with water, surfaces with a damp cloth.

— When applying on walls directly exposed to sun or wind, it is advisable to wet the surface of TamirArt 5 for the following 24 hours after application.

#### Safety Advices

— Since contains cement, irritating to eyes, respiratory system and skin. For further information refer to safety data sheet.

#### Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

#### Packaging

— 25 kg. multi-ply paper bags

#### Technical Properties

(at 23° C and 50% RH)

Appearance

Grey powder

Shelf Life

12 months when stored in the original sealed packing in dry place

#### Application Data

Mixing Ratio

5.5 - 6 litres water / 25 kg. powder

Pot Life

Approx. 30 minutes

Application Temperature Range

(+5° C) - (+35° C)

Waiting Time Before Bonding

6 hours

Consumption

1.5 - 2 kg./m<sup>2</sup> ( per 1 mm. thickness)

#### Performance Data

Compressive Strength after 28 days(EN 12808-3)

≥ 11 N/mm<sup>2</sup>

Flexural Strength after 28 days (EN 12808-3)

≥ 4 N/mm<sup>2</sup>

Tensile Strength (TS 6433)

≥ 0.5 N/mm<sup>2</sup>

Service Temperature Range (after final cure)

(-40° C) - (+80° C)

## 4002 TamirArt 30

### Repairing Mortar



#### Description

Indoor and outdoor rendering and levelling mortar for walls, floors and ceilings in layers of thickness from 5 to 30 mm.

#### Fields of Application

- Smoothing walls prior to ceramic tiles installation and painting.
- Repairing old, damaged renders, concrete.
- Smoothing foamed cement, concrete, brick walls.
- Filling hairy cracks.

#### Properties

- Easily trowellable.
- High flexural strength.
- High adhesion strength.

#### Application

- Substrates must be compact, free of dust, loose parts and clean from oils, grease, paint or adhesive residues (TamirArt 30 can also be applied to damp surfaces without any problem, but cure time will be slightly prolonged).
- It is advisable to wet highly absorbent substrates or better to apply Kalekim Astar or Kalekim Dolgulu Astar.

— Pour 25 kg. of TamirArt 30 into 5 - 5.5 litres of clean water slowly and mix to obtain a homogeneous paste free from lumps. (A low speed mixer is recommended to mix).

— Allow to stand for 5 - 10 minutes to mature. After remixing, the paste is ready for application.

— Apply TamirArt 30 with rendering machine flat trowel with a firm pressure to ensure a good adhesion. It is advisable to apply a first coat of TamirArt 30 to the substrate so as to ensure perfect coverage and then, without waiting, apply the layer for good levelling up to a maximum of 3 cm. at a time.

— Pot life is 30 minutes, apply the mortar within this period.

— Unfavourable climatic conditions (high temperature, low humidity, wind, etc) can reduce this time to just a few minutes.

— Dispose mortars of which pot life is expired. Clean tools and hands with water, surfaces with a damp cloth.

— When applying on walls directly exposed to sun or wind, it is advisable to wet the surface of TamirArt 30 for the following 24 hours after application.

#### Safety Advises

— Since contains cement, irritating to eyes, respiratory system and skin. For further information refer to safety data sheet.

#### Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

#### Packaging

— 25 kg. multi-ply paper bags

#### Technical Properties

Appearance

Shelf Life

#### Application Data

Mixing Ratio

Pot Life

Application Temperature Range

Waiting Time Before Bonding

Consumption

#### Performance Data

Compressive Strength after 28 days (EN 12808-3)

Flexural Strength after 28 days (EN 12808-3)

Tensile Strength (TS 6433)

Service Temperature Range (after final cure)

(at 23° C and 50% RH)

Grey powder

12 months when stored in the original sealed packing in dry place

5 - 5.5 litres water / 25 kg. powder

Approx. 30 minutes

(+5° C) - (+35° C)

6 hours

1.5 - 2 kg./m<sup>2</sup> ( per 1 mm. thickness)

≥ 17 N/mm<sup>2</sup>

≥ 4 N/mm<sup>2</sup>

≥ 0.5 N/mm<sup>2</sup>

(-40° C) - (+80° C)

# 4201 Mastar 10

## Self Levelling Screed



### Description

Self levelling flooring compound smoothing the differences in thicknesses from 2.5 to 10 mm. on new and existing interior floors where a high resistance to loads and traffic is required.

### Fields of Application

- For levelling concrete slabs and cementitious screeds.
- Levelling existing concrete pavements, terrazzo, ceramic and natural stone.
- Under wood, laminated parquet, carpet, PVC, linoleum and ceramic flooring.
- For floors subject to high loads and heavy traffic like depots.

### Properties

- Perfectly self levelling.
- High bonding strength.
- Can be spread in thicknesses up to 10 mm. per coat without shrinkage, cracking or crazing.
- Develops very high compressive and flexural strength.
- Resistance to abrasion.

### Application

- The substrate must be solid, dry, free of dust, loose parts, paint, wax, oils, rust and traces of gypsum.
- Dusty and very porous concrete surfaces must be treated with Kalekim Astar.
- Use Tamir Art in case of any loose and uneven substrates to get a sound and flat surface.
- Pour 25 kg. of Mastar 10 into 6 - 6.5 litres of clean water slowly and mix with a low speed mixer to obtain a homogeneous self-levelling lump free mix.
- Allow to stand for 2 - 3 minutes to mature. After remixing, the paste is ready for application.
- Use the mixture within 20 minutes of preparation.
- Pour out the mix onto the surface and distribute evenly with a smoothing trowel or screeding rake. Where possible, spread to the desired thickness in one application. Flow and surface quality can be improved by removing air from the fresh compound using the spike roller.
- Levelling coat of Mastar 10 will be ready to receive resilient, carpet, laminated parquet, PVC, ceramic and wood floor coverings after 24 hours at 23° C (time can vary depending on the thickness of the levelling, the room temperature and humidity).

### Safety Advices

- Since contains cement, irritating to eyes, respiratory system and skin. For further information refer to safety data sheet.

### Storage

- Store in dry medium. Do not stack more than 10 bags on top of each other.

### Packaging

- 25 kg. multi-ply paper bags

### Technical Properties

(at 23° C and 50% RH)

Appearance	Grey powder
Shelf Life	12 months when stored in the original sealed packing in dry place
<b>Application Data</b>	
Application Temperature Range	(+5° C) - (+35° C)
Mixing Ratio	6 - 6.5 litres water / 25 kg. powder
Pot Life	20 minutes
Initial Setting	15 - 30 minutes
Final Setting	60 - 90 minutes
Set to Light Traffic	6 hours
Waiting Time Before Coating	24 hours
Ready for Use	48 hours
Consumption	1.5 kg./m <sup>2</sup> ( per 1 mm. thickness)
<b>Performance Data</b>	
Compressive Strength - C35 (TS EN 13813) after 28 days	> 35 N/mm <sup>2</sup>
Flexural Strength - F7 (TS EN 13813) after 28 days	> 7 N/mm <sup>2</sup>
Böhme Abrasion Resistance A22 (TS EN 13813)	< 20cm <sup>3</sup> /50cm <sup>2</sup>
Service Temperature Range	(-30° C) - (+80° C)



# 4505 Kalekim Astar

## Acrylic Primer



### Description

Acrylic based primer.

### Fields of Application

- For treating gypsum surfaces prior to laying ceramic tiles.
- To improve the bonding of smoothing compounds on cement, gypsum, ceramic and marble surfaces.
- To even the absorption of cement or gypsum surfaces.

### Properties

- Applicable to any surface.
- Forms a flexible, compact, shiny film.
- Reduce porosity and absorption.
- Improves the adhesion of paint, tiles by adhesive and mortar for renders.

— On the surface of gypsum, prevents chemical reaction between sulphates and the cement aluminates of the tile adhesives, in the presence of moisture, leads to the formation of salt named "ettringite" which is the cause of tile breaking away from gypsum substrate.

- Prevents over-rapid absorption of water by the substrate.
- Prolongs finishing time.
- Prevents shrinkage cracks.

### Application

- Surfaces must be clean, dry and free from oils, grease, residual paint and other loose material.
- Shake the Kalekim Astar just before use, apply it as 2 layers and spread it uniformly on the surface with a flat brush or a roller without diluting it.

### Safety Advises

- For further information refer to safety data sheet.

### Storage

- Store in original sealed packing in dry medium. Protect from frost.

### Packaging

- 5 lt. barrel

### Technical Properties

(at 23° C and 50% RH)

Appearance

White liquid

Shelf Life

12 months in original sealed packaging

### Application Data

Application Temperature Range

(+5° C) - (+35° C)

Minimum Drying Time

45 - 60 minutes

Consumption

Approx. 150 gr./m<sup>2</sup>

# 4506 Kalekim Dolgulu Astar

## Smooth Surface Primer



### Description

Solvent – free, polymer dispersion based, pigmented primer.

### Fields of Application

- Smooth and dense surfaces such as tile, sandstone, marble, clinker, plywood and also absorbent surfaces such as gypsum, plaster, concrete, screed, wood.
- It is not suitable for wet-duty areas or areas which are permanently submerged.

### Properties

- Increases the adhesion strength of tile adhesives on smooth and glossy surfaces by forming a rough surface.
- Reinforces the substrate and thus increases the adhesion of tile adhesive on unsound surfaces.
- Ready to use. Easily applicable with either roller or brush.
- Solvent – free. Does not smell and does not harm to environment.

### Application

- The substrate must be cleaned from dust, dirt, oil and old blistered coatings that may prevent good adhesion. The surface should be made sound, clean and dry.
- Cementitious substrates must be cured for at least 28 days.
- Sand the old synthetic based surfaces and clear the surfaces from occurring.
- If necessary, the surface cracks should be filled and the substrate should be evened with Kalekim TamirArt.
- Stir Kalekim Dolgulu Astar before the application and apply with a brush or roller.
- Drying time is 45 – 60 minutes. Do not apply anything on within this period.
- Apply two coats on absorbent substrates like gypsum, plaster, screed and concrete.
- Ensure that the air and surface temperature is above +5° C and the surface is protected from rain during application.

### Safety Advices

For further information refer to safety data sheet.

### Storage

Store in clean and dry medium and in temperatures from +5° C to +35° C.

### Packaging

5 kg. plastic pails

### Technical Properties

(at 23° C and 50% RH)

Appearance	Light blue liquid
Shelf Life	12 months when stored in the original packaging at temperatures
Density	Approx. 1.17 gr./cm <sup>3</sup>
Viscosity	7500 - 9000 mPa.s

### Application Data

Application Temperature Range	(+5° C) - (+35° C)
Drying Time	45 – 60 Minutes
Waiting Time After Application	Maximum 48 Hours
Consumption	Depending on the evenness and the porosity of the surface approximately 100 gr./m <sup>2</sup> per coat.

# 4701 İzLine Astar

## Bitumen Primer



### Description

Bitumen emulsion based primer.

### Fields of Application

— For treating surfaces before laying bitumen membranes to improve bonding.

### Properties

- Applicable to any type of substrate.
- Reduce porosity and absorption.
- Improves adhesion.

### Application

— Surfaces must be clean, dry, cured and free from oils, grease, residual paint and other loose material.

- Dilute İzLine Astar with water in 5:1 to 4:1 ratio.
- Apply with a flat brush or a roller.
- It is recommended to apply 2 coats. Do not apply the second coat before the first is completely dried.
- Clean the tools with water and soap right after application.
- Use solvents for the dried İzLine Astar.

### Safety Advices

- Avoid skin and eye contact.

### Storage

— Store in original sealed packing in dry medium. Protect from frost and direct sun light. Do not stack more than 5 cans on top of each other.

### Packaging

— 17 lt. can.

Technical Properties	(at 23° C and 50% RH)
Composition	Bitumen emulsion
Appearance	Dark brown liquid
Shelf Life	24 months in original unopened package
Density	0.98 gr./cm <sup>3</sup>
Solid Content	46%
Application Data	
Application Temperature Range	(+5° C) - (+35° C)
Mixing Ratio (İzoLine Astar / Water)	5:1 - 4:1 depending on the application
Tack Free Time	1 hour
Curing Time	5 - 6 hours
Consumption	Approximately 400 gr./m <sup>2</sup>
Performance Data	
Softening Temperature	+70° C