

# YAPIFINE BASE<sup>®</sup> MIX

Surface Hardener with Corundum and Quartz Aggregates



## Product Definition

Cement based, quartz-corundum aggregate surface hardener and performance booster additives, applied in monolithic manner on fresh concrete surfaces. Enhances abrasion resistance of concrete surfaces subject to light, medium and heavy loads.

## Areas of Use

- Indoor and outdoor spaces,
- Walkways and sidewalks,
- Floor of industrial facilities,
- Hangars, warehouses and mechanics workshops,
- Garages and parking lots,
- Subway stations,
- Gas stations,
- Waterfronts and loading ramps, and similar places where surface abrasion is high.

## Advantages

- Ensures non-dusting, bright, smooth surface floors.
- Easy to clean.
- Improves concrete impermeability.
- Oxidation-free.
- Improves abrasion and impact resistance of surface.
- Creates a surface resistant to freeze-thaw cycle.
- Provides time savings due to the easy and rapid application.
- Economic.
- Three different colour options.

## Technical Specifications

Appearance	Grey / Red / Green powder	Abrasion Resistance by Taber Abraser	≤ 3 g (H22, 1000 g, 1000 cycles)
Application Temperature	Between +5°C and +30°C	Step Over Time	24 hours
Flexural Strength	≥ 10 N/mm <sup>2</sup>	Reaction to Fire	A1
Compressive Strength	≥ 70 N/mm <sup>2</sup>		

\* Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.

 <b>Packaging</b>	25 kg kraft bag
--	-----------------

 <b>Consumption</b>	5 – 8 kg/m <sup>2</sup> depending on intended use and traffic load
--	--

## Surface Preparation

The load bearing concrete of the application surface should be minimum class C25.

Surface of the fresh concrete where the application is planned should be finished with finishing tray and leveled with wooden trowel.

Consistency of concrete is vital for sound application. If applied on overly consistent concrete, the floor hardener will not react since it cannot incorporate sufficient amount of water, whereupon the hardening does not take place. If the concrete is too slurry, then the hardener is caught up in concrete and remain ineffective.

Wait until the bearing concrete can be walked on. The ideal time is when 3-5 mm deep footprints are left when stepped on the concrete.

## Application Information

Roughly 2/3 of YAPIFINE BASE MIX should be spread on the surface. The material should not be left in clusters, distributed as homogenous as possible.

Also, avoid spreading to long distances not to decompose the aggregates in the product. This process can be done manually or by special spreading equipment.

Wait for the scattered material to change colour by absorbing the water of the concrete. The material should be rubbed into the surface with low cycle rotary float (mechanical trowel) and be ensured to integrate with the concrete. The same process is repeated for the remaining material. Once the surface hardens to such extent that it allows to be walked thereon, the final finishing should be performed by high cycle finishing. Switch to knife finishing and continue this process until the desired glossiness is achieved. Once concrete attains strength, cut in annular form to create joints and fill these joints with appropriate filling agent.

## Application Conditions

Should not be applied to surfaces that were exposed to sunlight for too long or to surfaces that are too hot or frozen. Should not be applied when the ambient temperature is not within the values of +5°C and +30°C.

The application area should be protected from the effects of wind and direct sunlight. The surface hardening application is complete, YAPIFINE CURE ACR, surface curing agent, in order to prevent the formation of contraction cracks and dusting.

Water and cement content properties of the concrete may cause slight colour variances.

Avoid contact with water on application surface.

Efflorescence may occur at relative humidity conditions lower than %40.

The final consumption amount might vary depending on application conditions and surface characteristics.

## Shelf Life

The shelf life of the product is 12 months when it is stored on wooden pallets in a cool, dry and moisture free environment with an ambient temperature between +10°C and +25°C.

## Safety Precautions

The operator should be wearing proper work attire, goggles, mask and protective gloves appropriate to work and worker safety regulations. In case of contact with the eyes or accidental ingestion of the product seek immediate medical attention. Rinse with plenty of water in case of contact with the skin. Since it is cement based, do not breathe its powder. For further information on the safe handling of this product please read the Safety Data Sheet (SDS).