

# SCRATCH EVO

## Epoxy screed for indoor and outdoor decorative floorings and walls

**SCRATCH EVO** is an epoxy tri-component system for indoor and outdoor decorative floorings and walls. Component A is epoxy resin based, component B is composed of specific hardeners and component C is composed of ceramic quartz or marbles, available in different selected grain size and 39 colours. To obtain **SCRATCH EVO**, mix components A and B, then add, while mixing, component C until a uniform mix is obtained. Decorations realized with **SCRATCH EVO** have high chemical and mechanical resistances and high resistance to abrasion caused by foot and light tired-vehicle traffic, creating a better grip (slip resistance). **SCRATCH EVO** has a high resistance to freeze - thaw cycles in presence of thawing salts, and to high temperature up to 60°C.

### FEATURES (test conditions: 23°C and 50% u.r.)

	Component A	Component B	Component C
Appearance	Transparent fluid liquid	Transparent fluid liquid	Quartz/marble
Specific weight	1,1 g/cm <sup>3</sup>	1,04 g/cm <sup>3</sup>	1,6 g/cm <sup>3</sup>
Brookfield viscosity [mPa·s]	1000-1300	200-400	-----
Grain size	Quartz: 0,7 - 1,2 / 2 - 3,2 mm    Marble: 1,2 - 1,8 / 3 - 5 mm		
Mixing ratio (by weight) 'FINE' VERSION	10,85%	5,04%	84,11%
Mixing ratio (by weight) 'MAXI' VERSION	8,03%	3,73%	88,24%
Workability time A+B+C (pot-life): 45 minutes			
Product consumption A+B+C 'FINE' Version: 2,1- 2,3 kg/m <sup>2</sup> per mm of thickness - Recommended thickness 4 mm for floors and 22 mm for walls			
Product consumption A+B+C 'MAXI' Version: 2 - 2,2 kg/m <sup>2</sup> per mm of thickness - Recommended thickness 6 mm			
Set to light foot traffic: 24 hours			
Complete hardening: after 7 days			
Leaching test of hazardous substances in water after 7 days: no release (after 7 days seasoning at standard conditions)			
Tensile strength on concrete UNI EN ISO 8298/1: > 0,8 N/mm <sup>2</sup> (hardening: 56 days at standard conditions)			
Tensile strength of <b>SCRATCH EVO</b> on concrete UNI EN ISO 8298/1: > 0,9 N/mm <sup>2</sup> after 56 freeze-thaw cycles by immersion in a solution of de-icing salts			
Tensile strength of <b>SCRATCH EVO</b> on concrete UNI EN ISO 8298/1: >0,8 N/mm <sup>2</sup> (seasoning: 56 days at a temperature of 60°C u.r. ≥ 75%)			
Tensile strength of <b>SCRATCH EVO</b> on concrete UNI EN ISO 8298/1: >0,8 N/mm <sup>2</sup> (seasoning: 56 days with water immersion at a temperature of 50°C)			
Abrasion resistance – Taber abrasion test (CS17 wheel-1000g -1000 rpm): <0,04 g weight loss			
Slip resistance (DIN 51130): CLASS 2			

**COLOURS RANGE  
QUARTZ LINE**

<b>'FINE VERSION' PARTICLE SIZE 0,7 - 1,2 mm</b>	<b>'MAXI VERSION' PARTICLE SIZE 0,7 - 1,2 mm</b>
Natural (0,8 - 1,2 mm)	Orange
Orange	Blue
Blue	Blue gentian
Blue gentian	Yellow - Lemon
Ultramarine	Light Gray
Brown	Black
Brown Walnut	Pink
Ocher	Bright red
Yellow - Lemon	Light green
Gray Bardiglio	Dark green
Light Gray	
Brown 'earth'	
Black	
Pink	
Red oxide	
Bright red	
Green	
Light green	
Dark green	
Emerald green	

**COLOURS RANGE  
MARBLE LINE**

<b>'FINE VERSION' PARTICLE SIZE 0,7 - 1,2 mm</b>	<b>'MAXI VERSION' PARTICLE SIZE 0,7 - 1,2 mm</b>
White Verona	White Verona
Red Verona	Botticino
Pink Coral	Yellow Mori
	Red Verona
	Green Alps
	Pink Coral

## USES

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- Epoxy covering for concrete floorings, walls and stairs.
- Ideal for the realization of industrial floorings with high mechanical resistances.
- Construction and restoration of coatings for swimming pools, balconies, terraces, courtyards, fountains, baths and showers.

## APPLICATION

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### Horizontal application

Grain size (mm): 0,7 - 1,2 / 2 - 3,2 quartz and 1,2- 1,8 / 3 -5 marble.

### Surface preparation

The concrete flooring to be covered must be dry, free of dust and incoherent parts. It must be completely smooth, without any traces of oil, greases and paints and completely dry.

**SCRATCH EVO** requires a pre-treatment of the support:

- **EPOFIX 300R** primer to insulate the substrate.

In the case of a fund of tiles or other non-absorbent materials the **EPOFIX 300R** is **NOT** necessary.

- After 24 hours, primer **SCRATCH FONDO EVO** to facilitate the anchoring of **SCRATCH EVO** (applicable once the primer is dry).

### Preparation and spreading of the product

Add component A (resin) and component B (hardener) in a clean bucket and mix with a mechanical paddle mixer at low rpm (about 150-200 rpm) for about 2/3 minutes. Then add component C (aggregate) to A+B while shaking, until a uniform mix is obtained. While applying the product, mix it at intervals of 5 minutes to guarantee a perfect homogeneity.

Pour the obtained mixture and uniform the thickness (about 4 mm for 'FINE' version and about 6 mm for 'MAXI' version) using an American spatula (lightly vaporize alcohol to facilitate the sliding). Smooth the product by sliding the spatula, without pressing on the surface.

**Before commissioning, wait 7 days after the application.**

### Vertical application

**Also use this procedure to coat substrates consisting of inclined planes with high gradient**

Grain size (mm): 0,7 - 1,2 quartz and 1,2- 1,8 marble.

### Surface preparation

The concrete flooring to be covered must be dry, free of dust and incoherent parts. It must be completely smooth, without any traces of oil, greases and paints and completely dry.

**SCRATCH EVO** requires a pre-treatment of the support, 24 hours before the application, with the anchoring primer **EPOFIX300R**.

**SCRATCH EVO** needs also a second coat of **EPOFIX 300R** as anchor primer, to overcoat using the 'wet on wet' method.

### Preparation and spreading of the product

Using a roller, apply **EPOFIX 300R** on the wall, with crossing strokes, up to impregnate the support leaving a slight excess of material (withish colour where applied). Wait for the product to become sticky and begin to mix **SCRATCH EVO**.

Add component A (resin) and component B (hardener) in a clean bucket and mix with a mechanical paddle mixer at low rpm (about 150-200 rpm) for about 2/3 minutes. Then add component C (aggregate) to A+B while shaking, until a uniform mix is obtained. While applying the product, mix it at intervals of 5 minutes to guarantee a perfect homogeneity. Pour the obtained mixture and uniform the thickness using a spatula (about 2 mm for the 'FINE' version); carefully compact and immediately smooth the obtained layer using an American spatula (lightly vaporize alcohol to facilitate the sliding). Smooth the product by sliding the spatula, without pressing on the surface.

### Application in swimming pools, fountains, bathtubs and showers

Grain size (mm): 0,7 - 1,2 quartz and 1,2- 1,8 marble.

### Surface preparation

The concrete flooring to be covered must be dry, free of dust and incoherent parts. It must be completely smooth, without any traces of oil, greases and paints and completely dry. Using a brush, apply a generous coat of **BETONLAST 30** at corners, nozzles, joints and other critical points in general. Once dry, apply two coats of **BETONLAST 30**.

**For the bottom of the pool, the following treatment is required:**

- primer **EPOFIX 300R**;

- after 24 hours, **SCRATCH FONDO EVO** primer to facilitate the anchoring of **SCRATCH EVO** (applicable once the primer is dry).

**For the walls of the pool, the following treatment is required:**

- primer **EPOFIX 300R**;
- after 24 hours, apply a second coat of EPOFIX 300R to facilitate the anchoring of **SCRATCH EVO**, that has to be applied with the 'fresh on fresh method'.

**Preparation and spreading of the product**

Using a medium/long nap roller, apply the second coat of **EPOFIX 300R** on the wall, with crossing strokes, up to impregnate the support leaving a slight excess of material (withish colour where applied). Wait for the product to become sticky and begin to mix **SCRATCH EVO**. Add component A (resin) and component B (hardener) in a clean bucket and mix with a mechanical paddle mixer at low rpm (about 150-200 rpm) for about 2/3 minutes. Then add component C (aggregate) to A+B while shaking, until a uniform mix is obtained. While applying the product, mix it at intervals of 5 minutes to guarantee a perfect homogeneity.

For the **finishing of walls** apply the obtained mixture and press it with the spatula in order to uniform the thickness using (about 4 mm for the horizontal application and 2 mm for the vertical application); carefully compact and immediately smooth the obtained layer using an American spatula (lightly vaporize alcohol to facilitate the sliding). Smooth the product by sliding the spatula, without pressing on the surface.

For the **finishing of floors**, apply the obtained mixture and press it with the spatula in order to uniform the thickness using; carefully compact and immediately smooth the obtained layer using an American spatula (lightly vaporize alcohol to facilitate the sliding). Smooth the product by sliding the spatula, without pressing on the surface.

**RULES TO BE OBSERVED DURING PRODUCT PREPARATION AND APPLICATION**

Always wear protective gloves and eyewear when mixing and applying the product. In case of contact with the eyes, immediately and repeatedly wash with water and visit the first-aid post.

**INSTRUCTIONS**

- An excellent constipation is recommended.
- Do not dilute **SCRATCH EVO** with solvents or water.
- Do not change the mixing ratio of the components in any way – use and mix all the quantities of components A, B and C.
- Do not expose the product to heat sources.
- Do not use **SCRATCH EVO** at temperatures below +5°C and above +30°C (relating both to surface and room).
- Use **SCRATCH EVO** within the workability time above indicated (with effect from the time you start to mix).

**CLEANING**

Tools are easily cleaned with ethyl alcohol or acetone within one hour from product application.

**CONSUMPTION**

The average consumption of **SCRATCH EVO** is of about 2,1-2,3 kg/m<sup>2</sup> per mm of thickness, and for the 'MAXI' version is of about 2,0-2,2 kg/m<sup>2</sup> per mm of thickness.

**PACKAGING**

**SCRATCH EVO** is available in 29,72 kg (A+B+C) packing for 'FINE' version and 28,32 kg (A+B+C) packing for 'MAXI' version.

**STORAGE**

In its original and sealed packing, **SCRATCH EVO** is stable for at least 12 months if kept in a dry and protected environment at a temperature between +5°C and +35°C

**FOR FURTHER INFORMATION, CONTACT RAPID MIX TECHNICAL ASSISTANCE**

The information and instructions shown on this sheet, though the result of careful laboratory tests and practical experience, should be deemed merely approximate. Considering the different conditions in which the product can be used, whosoever intends using it must determine its suitability for the job to be done. The manufacturer disclaims all liability for use of the product without the supervision of a Rapid Mix technician.