

## 6.8 Two component epoxy & polyurethane systems

# DUROEPOXY FLOOR SF Brushable two component epoxy paint without solvents



### TECHNICAL SPECIFICATIONS

<b>Chemical base</b>	Two component epoxy resin without solvents
<b>COLORS</b>	
<b>WHITE</b>	
<b>RAL 7032</b>	Sand gray
<b>RAL 7035</b>	Light gray
<b>RAL 7040</b>	Gray
<b>RAL 3009</b>	Oxide gray
<b>RAL 1015</b>	Beige
<b>RAL 1013</b>	Light beige
<b>RAL 6021</b>	Pale green
<b>RAL 5024</b>	Pastel blue
<b>Mixture density</b>	1.50±0.05 kg/lit
<b>Mixing ratio A/B</b>	100/25 by weight
<b>Pot life</b>	40-50 minutes at +20°C
<b>Application temperature</b>	From +10°C to +35°C
<b>Recoating time</b>	24 hours
<b>Foot traffic</b>	Approximately 24 hours, depending on the ambient temperature and humidity
<b>The rest of the RAL color chart is available by special order</b>	Minimum order 125 kg

### MECHANICAL STRENGTHS

<b>Strength, per DIN EN 196-1, after 7 days at 23°C to:</b>	
• flexion	31.50 N/mm <sup>2</sup>
• compression	51.50 N/mm <sup>2</sup>

#### V.O.C. (Volatile Organic Compounds):

Limit value of maximum content of V.O.C. per EC (Directive 2004/42 / EC) for this product (category A1): 'Two-pack performance coatings', type SB): 500 gr/lit (2010). The ready to use product (A+B mixture) contains maximum 0 gr/lit V.O.C.

**Certified by the State General Laboratory with Protocol Number 04019/015/000. It fully complies with the conditions of the Regulation (E.C.) 1935/2004 & 1895/2005 and Article 28 of the Food and Drinks Code.**

### SAFETY DIRECTIONS

The product is classified as irritant. It is recommended to keep away from the reach of children. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet.

### PACKAGING

10kg container (A = 8.0kg, B = 2.0kg)  
5kg container (A = 4.0kg, B = 1.0kg)

### PROPERTIES

Highly durable self levelling white or colored epoxy paint without solvents. Exceptionally durable and resistant to abrasion, strong acids and alkalis. It is uniquely durable to solvents and mineral oils, salt or chlorinated water, as well as extreme weather conditions.

It creates a surface that is distinguished for its high hardness, and its zero absorbance that does not favour bacterial growth. Its properties make it uniquely suitable for areas subjected to strict hygiene standards. It remains unaffected to temperatures ranging from -30°C to +100°C under dry conditions and to +60°C in wet conditions.

Classified SR-B2, 0-AR0, 5-IR4, per EN 13813.

### APPLICATIONS

DUROEPOXY FLOOR SF applies as brushable coating on flooring projects with specifications that require high mechanical and chemical strengths. Apply it on cementitious substrates such as cement screeds, concrete and asbestos/concrete slabs.

It effectively protects and decorates cementitious industrial floors in hospitals, wineries, as well as dairy plants and cheese factories. Use it also for kitchen floors (pic.2), and laboratories, slaughterhouses, as well as laundries and garages (pic.4). Irreplaceable for applications in auto repair shops (pic.3) and gas stations, as well as swimming pools (pic.1) and fountains, etc. Surfaces coated with DUROEPOXY FLOOR SF, may come in direct contact with raw food products. Certified by the State General Laboratory with Protocol Number 04019/015/000. It fully complies with the conditions of the Regulation (E.C.) 1935/2004 & 1895/2005 and Article 28 of the Food and Drinks Code.

Apply it on metal and wood sur-

faces, after priming them first with DUROEPOXY FLOOR PRIMER SF. Surfaces like floors made of sheet metal, MDF or chipboard (pic.5). Broadcast on the fresh surface QUARTZ SAND of DUROSTICK, with grain size of 0.01-0.50mm, to create a non skid surface.

### USE

#### 1. Surface preparation

Proper preparation of the substrate is crucial for a successful end result.

**Cementitious surfaces:** Substrates must be completely dry, clean, and free from loose materials, dust and formwork oils, if any. Concrete categories have to be at least C20/25. Cement screeds have to contain, at minimum, 350kg/m<sup>3</sup> cement. In cementitious substrates, the moisture content cannot exceed 4% and at least 30 days have to pass from their construction. Non porous substrates have to be prepared by grinding, surface stripping or sand blasting to become porous. These procedures will allow for the impregnation of DUROEPOXY FLOOR PRIMER SF, thus ensuring perfect adhesion of the epoxy paint. All application surfaces have to be clean, completely dry and free from loose material, dirt and oils. Mix DUROEPOXY FLOOR SF with QUARTZ SAND, with grain size of 0.01-0.50mm, at a ratio of 1:1.5 to 1:2. Use the mixture to fill any imperfections (holes, cracks).

**Metal surfaces:** All surfaces have to be clean, completely dry and rust free. Prime with DUROEPOXY FLOOR PRIMER SF and once dry, apply DUROEPOXY FLOOR SF.

**Wood surfaces:** All surfaces have to be clean, completely dry and porous. Remove any surface coatings, whether it is paint, wood preservative or varnish by sanding or using DUROSTICK D-26, the corrosive and paint remover. Fill any defects (holes, cracks) using DUROWOOD, the wood putty of DURO-



STICK. Effective and affordable solution for loft (pic.5) and attic floorings with exceptional water-proofing properties.

**2. Application**

Empty the contents of container B into container A. Mix for at least 5 minutes with a low rpm electric mixer, until the mixture is full homogenized and uniformed in color. Pour DUROEPOXY FLOOR SF onto the primed floor and spread it using a floor squeeze. Use a low nap (enamel paint) roller and spread the fresh mixture evenly on the surface. This process will ensure the same thickness over the entire surface. Continue with the second coat after the first one is dry, but always within the next twenty four hours. It is recommended to wear spiked shoes. If a non skid surface is required, broadcast/disperse onto the still fresh coat QUARTZ SAND of DUROSTICK. Broadcast as much sand as needed to achieve the desired anti skid result.

Twenty four hours later remove any loose sand grains with a shop vacuum. Once clean, apply the final top coat that seals the surface and offers the perfect anti skid floor.

**ADVANTAGES**

DUROEPOXY FLOOR SF advantages over other floor covering solutions are that it is more affordable, it is easy to apply and it requires little curing time before use.

**NOTE**

- Epoxy systems are sensitive to ambient temperature and humidity, until their final cure. Pot life is reduced with increased ambient temperature. Dull or discolored spots appear on the surface and curing time increases at high humidity conditions
- After mixing of the two components, the temperature of the mixture increases.

- Chalking (surface deterioration) is a typical problem of all epoxy systems applied on exterior surfaces. Restore surfaces just by recoating them with DUROEPOXY FLOOR PRIMER SF once a year.
- After curing, the product is harmless to health and the environment.

**CLEANING**

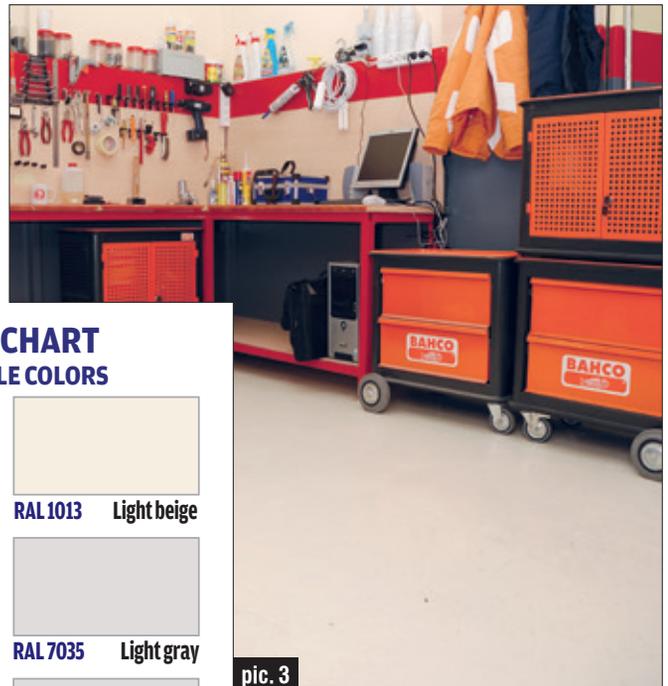
Clean all tools with THINNER 201 of DUROSTICK, immediately after use.

**CONSUMPTION**

**Smooth surface:** 250-300gr/m<sup>2</sup> per coat.  
**Anti-skid surface:** 400-600gr/m<sup>2</sup> per coat.

**STORAGE**

Store in tightly closed containers, in dry and shaded places, for at least 12 months from production date.



**COLOR CHART**  
**8 AVAILABLE COLORS**

<b>RAL 1015</b> Beige	<b>RAL 1013</b> Light beige
<b>RAL 7032</b> Sand gray	<b>RAL 7035</b> Light gray
<b>RAL 6021</b> Pale green	<b>RAL 7040</b> Gray
<b>RAL 5024</b> Pastel blue	<b>RAL 3009</b> Oxide red
<b>WHITE</b>	

Discrepancies between the color chart and the end result are due to the limited precision of the printing process

**DUROEPOXY FLOOR SF is available in WHITE and 8 RAL colors. The rest of the RAL color chart is available by special order.**