

Technical 15.01.2015

## Cement screed TOP 1

### For interior and exterior use



#### Use:

Cement-based screed, CT C20 F5 A9 according to SR EN 13813 / 2003 for indoors and outdoors application on common surfaces, as a base for self-leveling screeds, for surfaces with heavy traffic, in a 30 - 80 mm layer. Product is applied only on mineral bases. Product does not apply on wood, plastic, metal, etc.

#### Characteristics:

- High resistance
- Smooth surface
- Easy processing

#### Technical data:

Item No.:	SC TOP 1
Material foundation:	Cement, mineral aggregates, plasticizers
Class or material:	CT C20 F5 A9 according to SR EN 13813 / 2003
Compressive strength:	Min. 20 N / mm <sup>2</sup>
Tensile strength:	Min. 5 N / mm <sup>2</sup>
Maximum granularity:	4 mm
Resistance to wear:	Class A9
Reaction to fire:	Class A1
Bucket time:	Approx. 2 hours
Air/substrate temperature when placing:	Min. +5°C max. +30°C
Consumption:	Approx. 19 kg / m <sup>2</sup> / cm
Packaging:	Paper bag resistant to humidity, silo
Delivery:	30 kg, bulk
Storage / Validity:	12 months from date of fabrication on the packaging, according to Directive 1907/2006/EC and GR 932/2004, at 20°C and 65% relative humidity. Store in dry spaces on wooden pallets.

Technical data and those related to consumption are determined in standard conditions.  
There may be differences depending on conditions of applications.

**Base:**

The mineral support layers must be at least 28 days old, respectively they must be completely hardened and dried. Very thick concrete elements, over 20 cm, must be at least 3 months old. Pressure water and humidity must not come from the support layer as it does with concrete poured directly on the ground, without insulation. Surface of the support layer must be resistant, clean, dry, without cracks or fissures, adherent and compact, free of grease, dusts, loose debris, salts or other material than can form a separator layer. Fragile portions and mortar residues must be removed.

**Processing:**

Introduce the material into water, 25 kg are mixed homogenously in approx. 3,3 - 4,2 liters of clean water, with electric concrete mixing machine or electric mixer. Product delivered in bulk can be mixed with a continuous mixer. Screed is applied on the support layer to achieve the level marks. Screed is applied between the marks and is leveled with a metal smoothing board until you obtain a smooth surface. Screed surface can be further troweled. Joints in the support layer must be taken into the applied screed surface. Screed surfaces must be delimited at max. 6 x 6 meters; avoid L shaped surfaces. When applying on a heating system, it must be turned off with minimum 24 hours prior to applying the screed. Avoid fast dehydration of the screed by taking protective measures such as plastic foil applied on the surface or additional watering if needed.

Drying time of surface before normal usage is approx. 1 mm / day, maximum 1 cm / week under optimum temperature and humidity conditions. This time is taken into account at 20°C and 65% relative humidity. Low temperatures and high air humidity prolong this drying and hardening period.

**Important:**

- During application, consideration must be given to additional measures for the protection of surfaces against fast dehydration, bad weather or frost;
- Avoid direct exposure of surfaces to sunlight during application;
- Comply with the information in the technical security sheet;
- This technical sheet replaces all previous versions. Information in this technical sheet represent our experience with this product up to this day. This technical sheet does not clear the user of the product from making his own decision and evaluation including by samples, regarding the appropriateness of using the product. SCHOMBURG / ADEPLAST products as well as their aggregate raw materials are continuously monitored in our own laboratories for consistent quality. Our advisory service is available for questions regarding product application and demonstrations. Comply with the information in the security technical sheet.