

COOL BARRIER

SLV Mortar



Product description

This is a three component amine cured solvent free epoxy screed. It is a robust high performance product. It is an extreme high build, trowel applied product. It is specially designed as a superior abrasive and impact resistant mortar for areas with extreme wear and tear. Can be used as mid coat or finish coat in atmospheric environments. Suitable on approved primers on concrete substrates.

Typical use

Designed for a wide range of floors exposed to extreme wear and tear. Recommended for steel plants, plant rooms, factories, aircraft hangars, food and beverage plants.

Colours

Selected range of colours

Basic product data

Solids by volume: 99 ± 1 %

Typical recommended film thickness per coat

Dry film thickness	Wet film thickness	Theoretical spreading rate
4000 µm	4000 µm	0,2 m ² /l
5000 µm	5000 µm	0,175 m ² /l

Surface preparation

Clean, dry and undamaged compatible coating as per SSPC SP13/NACE NO 6 /ASTM D4258 -05 /ACI 503.6R-97/SSPC-TR 5/ICRI TECHNICAL GUIDELINE 03741/NACE02203

Application methods

Trowel: Nylon or steel trowel.

Conditions during application

The temperature of the substrate should be minimum 10 °C and at least 3 °C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The moisture content in the substrate should not exceed 4 % (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Product mixing ratio

This is a three component system. Mix the three components below, according to the accompanying labeling recommendations with the pre-fixed containers.

COOL BARRIER SLV Mortar Comp A

COOL BARRIER SLV Mortar Comp B

COOL BARRIER SLV Mortar Comp C

No part mixing of this product. Use a slow speed drill and mixing paddle. The temperature of base and curing agent is recommended to be 18 °C or higher when the paint is mixed.

Component A should be thoroughly stirred before component B is mixed. Mix both the components using a slow speed drill and mixing paddle. The entire content should be poured on to a third container & edges of the container should be scrapped. Mix the material for more 20 second. The mixed material should be given an induction time of 3 minutes before applying.

Thinner/Cleaning solvent

Thinner: Abolin Thinner No. 300

Drying and Curing time

Substrate temperature	15 °C	23 °C	40 °C
Surface (touch) dry	16 h	12 h	9 h
Walk-on-dry	24 h	16 h	12 h
Dry to over coat, minimum	24 h	16 h	12 h
Dry to over coat, maximum	96 h	96 h	48 h
Dried/cured for service	8 d	7 d	5 d

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The shortest time allowed before the next coat can be applied.

Dry to over coat, maximum: The longest time allowed before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Pot life

COOL BARRIER SLV Mortar Comp A + Comp B: 20 min, 23 °C

COOL BARRIER SLV Mortar Comp A + Comp B+ Comp C: 30 min, 23 °C

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact abolin for specific system recommendation.

Previous coat: epoxy

Subsequent coat: epoxy, polyurethane

Shelf life at 23 °C

COOL BARRIER SLV Mortar Comp A - 12 month(s)

COOL BARRIER SLV Mortar Comp B - 24 month(s)

COOL BARRIER SLV Mortar Comp C - 24 month(s)

Performance data at 23±2 °C and 50±5% RH

Compressive Strength	87.9 N/mm ²
Tensile Strength	13.7 N/mm ²
Flexural Strength	31.4 N/mm ²
Coefficient of Linear Expansion @ 25-30°C	17.7
Heat Deflection Temperature 61	61

Chemical	% Weight Change	
	3 Days	7 Days
30% Hydrochloric Acid	1.7	3.1
30% Nitric Acid	2.2	3.6
30% Sulphuric Acid	5.5	9.8
30% Caustic	0.02	0.04
n-Butanol	0.53	0.53
Methyl Ethyl Ketone	6.3	Failed
Toluene	2.1	3.6
Distilled Water	0.11	0.22

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Abolin's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible abolin representative for approval before commencing the work.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Disclaimer

The information in this document is given to the best of Abolin's knowledge, based on laboratory testing and practical experience. Abolin's products are considered as semi-finished goods and as such, products are often used under conditions beyond Abolin's control. Abolin cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Abolin reserves the right to change the given data without further notice. Users should always consult Abolin for specific guidance on the general suitability of this product for their needs and specific application practices. If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

ABOLIN CO GREECE:

Email: abolin@abolinco.com,

Web: www.abolinco.com