Bayshield International

HIGHSCREED EG1T®

Three Componenet tropicalised Flowing Epoxy Screed

PRODUCT DATA SHEET
Edition: 5-11-2022
ID No: Highscreed EG1T®V:1

EPOXY BASED SCREED PRODUCT

DESCRIPTION

HIGHSCREED EG1T® A Three Component trowel applied Low Exothermal Tropicalized Flowing Epoxy Screed, It Is Moisture Tolerant and Designed for Fast and Secure Free Flow Installation.

USES

Ideally suitable to be installed in industrial plants, Loading bays, steelworks, dairies, breweries, oil refineries, paint workshops, battery rooms, plating factories, food industries.

ADVANTAGES

- Flowing Consistency for Easy and Rapid screed Installation.
- High Early Strength Development for Rapid Return to Service.
- Non-Shrinking. No Loss of Bond or Surface Contact.
- Excellent Ultimate Compressive Strength.
- Resistant to Dynamic Service Loads.
- Compatible with All Types of Waterproofing Membrane.
- Topped by Epoxy Based toping for Smooth finishing
- Bonds to Concrete, Metal and Most Other Building Materials.
- Chemical Resistant to a Wide Range of Aggressive Agents, Fungus & Algae.
- Moisture Tolerant.

MATERIAL DATA

Type	Epoxy Based
Form	Std Light grey | Special colors upon request
Packing	29Kg kit | Yielding: 13.5 ltr at Mix
Thinning	Thinner 1212
Storage	24 month in unopened packaging, between 5°C and 35°C in shaded area only.

TECHNICAL DATA

Property	Value	
Density of Mixed material	2.1 KG/L	
Pot Life, ASTM C308	30°C – 150min	
Compressive Strength BS6319 Part:2 -28 days @ 30°C	>80 N/mm^2 @ 28 Days	
Flexural Strength BS6319 Part:2	30 N/mm^2 @ 7 Days	
Permeability BS EN 12390	Nill	
Tensile Strength ASTM D 412	15N/ mm^2@ 7 Days	
Bond Strength BS EN 1881-207	>2.5 N/mm^2	
Direct Adhesion to Steel	14.0 N	
Coefficient of Thermal Expansion: EN 206	6.2x10^^{6}/°C	
Chemical Resistance	Oil	A
	Effluents	A
	Mild Acid	A
	Alkalis	A
	Hydraulic Fluids	A
	Detergents	A
	Car oil	A
	Nitric Acid 10%	B
	Citric Acid 10%	B
	Nitric Acid 10%	C
	Sulphuric Acid 10%	C

A: Excellent | B: Good | C: occasional spillage less than 5 min

APPLICATION DETAILS

New concrete should be at least 28 days old and the moisture content should not exceed 5%.

The surface should be clean, sound, free from oil, grease and any other contaminants. Removal of laitance from the concrete surface is recommended to ensure optimum bond.

Metal surfaces: Degrease any bolts or other metal, and if needed grit blast or wire brush to remove rust or old coatings. Ensure the area to be filled is grout tight before starting, to avoid grout seepage and possible loss of bond, when hardened.

PRIMING:

- Concrete surfaces should be primed using **EpoPrime 100®** (Solvent free Epoxy Sealer), in which it has to be applied in thin continuous coats to achieve a seamless tack free surface prior to installing **HIGHSCREED EG1T®**. Porous surfaces might absorb the primer quickly leaving dry colour patches, in which at this stage a second coat should be applied.
- Steel surfaces should be primed using **BAYCOR ZP®** (Solvent base Epoxy) to ensure proper adhesion and rust resistant properties.

APLLICATION GUIDLINE

Mixing

Blend resin and hardener components of **HIGHSCREED EG1T®** using a mechanical grout mixer or a slow speed drill and paddle blade. When uniformly blended, add filler component and continue mixing until homogenous finish is achieved (2-3 minutes).

Avoid high speed mixers or those which entrap air in the grout while mixing.

DO NOT split packs – mechanical properties will only be maintained when the correct proportions of each pre-weighed component is used.

Typical Application

The Mixed pack should be spread to uniform thickness on the primed surfaces using a steel trowel. The material should be tamped with a wooden float to ensure complete compaction and finally finished to a closed even texture using a steel trowel. Screed rods are useful to maintain a minimum compacted thickness of 3-6mm.

Perimeter edge Coving can be achieved with **HIGHSCREED EG1T®** up to a height of 200mm

TOPPING

For Smooth and clear finish, **HIGHSCREED EG1T®** can be topped with **BAYCOAT 1212®** (Solvent free Epoxy Coating) after rubbing off all traces of trowel marks and cold joints.

Note: Different types of topping might be applicable subject to the approval of BAYSHIELD Technical Team.

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SAFETY

Protection Measures

HIGHSCREED EG1T® is Epoxy based and there is risk of cauterization in the event of contact with the eyes; will lead to dehydration and thereof irritation in case of contact with skin. So while mixing and applying the product, protect with safety goggles and protective gloves

- Splashes to skin must be washed off with water and Soap
- Splashes to the eyes must be rinsed with clean warm water. Seeking medical attention is highly recommended and mandatory

Transportation

Non-Hazardous Material

COVERAGE

a) EpoPrime 100®
- 0.1ltr/m^2 @ 100 microns DFT

b) BAYCOAR ZP®
- 0.1 ltr/m^2 @ 80 microns DFT

c) HIGHSCREED EG1T®
- 6.44 Kg Mix @ 3mm DFT
- 12.88 Kg Mix @ 6mm DFT

d) BAYCOAT 1212®
- 0.25 ltr/m^2 @ 250 microns DFT

THINNING

Thinner X up to 5% only.

Curing

24 hours touch dry depending on the weather conditions
24-48 to achieve initial strength
7 days for full curing

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Important Notice:

The above data is based on our experience and extensive laboratory tests. It may be considered to be a general advice only and cannot be granted to meet the requirements for all the intended uses. It is the responsibility of the end user to ensure that the product is suitable for the purpose for which he wishes to use it. In view of many varying factors that are encountered during the application of the product it does not exclude the end users from not conducting their own test before actually using the product. We are thus only responsible for the quality of the product itself and not responsible for its performance, nor would we accept any liability whatsoever or howsoever arising from the use of this product. Any such matters should be specifically agreed to in writing by us. Bayshield reserves the right to modify the contents of the data sheet from time to time without notice as a system requirement in updating our products from time to time.

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