



Hi Build Steel Epoxy

DESCRIPTION :

Hi Build Steel Epoxy is a heavy-duty; two-component epoxy can be used as a top coat for interior steel protection as a mid-coat for outdoor exposure for structural steel and metallic surfaces. By combining the surficial and barrier protection of a premium epoxy with specialized pigments, this formulation ensures long-term durability in corrosive environments. When used in combination with suitable primer product, it can bear C4-C5 Environments.

ADVANTAGE :

- Excellent adhesion to concrete steel, wood, stoneware, etc.
- High chemical and abrasion resistance
- Easy applied by brush, roller or spray
- Acts as a protective and waterproof coating
- Ecofriendly, low VOC

USES:

It is recommended as an original and maintenance coating for the protection of indoor steel structures, yards, and warehouses and in chemical factories. It is recommended to use as a top coat for interior steel structures where UV exposure is less, however will be perform perfect as a mid-coat for every outdoor environment with PU Top Coat.

TECHNICAL DATA :

Appearance	Liquid coating
Color	Various
Density at 25°C	1.54 kg/L
Dry residual	100%
Pot life time at 25°C	100 min @ 25° c 40 min @ 25° c
Adhesion Strength at 7 days (ASTM D4541)	40 N/mm ²
Compressive Strength at 7 days (ASTM C579)	75 N/mm ²
Flexural Strength at 7 days	>25N/mm ²
Tensile Strength	20 N/mm ²

SURFACE PREPARATION :

Substrate must be clean, dry, rough, and free from grease or weak layers.

Mechanical methods (grinding/blasting) are recommended for proper adhesion.

Repair defects with SAAK epoxy mortars before application.

New concrete: minimum 28 days old, moisture ≤ 5%.

Old floors: mechanically refurbished to sound substrate. On existing epoxy, test adhesion first; if weak, remove the old coating before applying SAAK Hi Build Steel Epoxy .

MIXING :

Hi Build Steel Epoxy is composed of two components that are mixed at the moment of use. Pour component B (hardener) into component A (resin) and mix carefully with a drill at low number of turns (200-300 turns per minute), till obtaining a homogeneous consistency

APPLICATION :

Hi Build Steel Epoxy mixture with a brush or roller in two crossed coats at a rate of 4-5 m² / liter per coat. The first coat is applied to achieve a uniform coating with minimum wet coat thickness of 200 microns. The second coat can be applied after making sure that the first one is completely dry and within maximum time of 24 hours from first coat application. The two coats must achieve minimum thickness of 400 microns



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PRIMING:

Hi Build Steel Epoxy is designed to be applied over well-prepared steel and concrete substrates directly without a primer,

CLEANING :

DAll tools used in the preparation and application of Hi Build Steel Epoxy must be cleaned with SAAK Solvent before hardening. Hardened material should be removed mechanically.

SHELF LIFE:

@ 30°C 18 months, in original sealed container, with proper storage conditions.

COVERAGE :

4-5 m² / liter per coat at 200 microns (wft) according to the porosity of the substrate.

STORAGE :

Keep in tightly closed containers and in sheltered and dry place. Shelf life is 12 months if stored as recommended.

PACKAGING :

22.35 kg (rice 19.5 kg) (weld 2.85 kg)

HEALTH AND SAFETY :

- As a general safety measure, inhalation of solvent vapours or paint mist and contact of liquid paint with skin & eyes, should be avoided. Forced ventilation should be provided when applying paint in confined spaces or stagnant air. Even when ventilation is provided, respiratory, skin and eye protection are always recommended when spraying paint.
- Please refer our Material Safety Data Sheet prior to using the product.
- This as industrial product, contains flammable materials and should be kept away from the sparks and open flames, smoking in the area should not be permitted. Local safety regulations should be followed

SAAK also provides various technical information such as CAD details, detailed method statements, specification clauses, application manuals, product selectors and technical support both in contractors and consultants offices as well as construction sites. For further information on these products and systems kindly check our website or contact your local SAAK representative.

