



STERLING TechnoSeal® EPA (HS)

High Strength, 2-Component, Solvent Free Thixotropic Epoxy Adhesive.

TECHNOTRADE
The Specialist Construction Chemical Company

Description:

TechnoSeal®EPA (HS) is a fast curing, 2 Component specially designed Epoxy Adhesive material for bonding TPE Based expansion Joint tape, metal plate, plywood, asbestos, etc. to concrete. It hardens in few hours.

TechnoSeal®EPA (HS) is a solvent free thixotropic high strength compound. It is used as general purpose adhesive for many applications conforming to ASTM C 881.

Application Includes:

As a structural adhesive for:

- Particularly suited for maintenance work in a situation where time is a Constrain.
- A highly effective adhesive for most building material including steel and concrete surface in an aggressive environment.
- Used in situations here long term protection against abrasion, weathering and chemical exposure is high. Can be used for bedding thin sheets of membranes etc.
- Can be used as spout sealing compound.
- Can be used as groove filling on vertical as well as overhead application.

As a fast setting repair mortar for:

- Corners and edges
- Patch Hole and void filling.
- As a Joint filling and crack sealing for:
- Rigid joint filling.
- Crack filling and sealing (nonmoving)

Features:

- Non-slump & Primer less.
- High initial and ultimate strengths.
- Impermeable to liquids and water vapor
- Suitable for dry and slight damp concrete surfaces
- Hardening is not affected by humidity
- Thixotropic: non-sag in vertical and overhead applications
- Solvent free & Hardens without shrinkage

Health and Safety instructions

TechnoSeal® EPA (HS) and TechnoFix® CleanZolPlus should not come in contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately- do not induce vomiting.

Method of Application

Substrate Quality

Mortar and concrete must be older than 28 days (depends on minimal requirement of strengths). Verify the substrate strength (concrete, masonry, natural stone).The substrate surface (all types) must be clean, dry and free from contaminants such as dirt, oil, grease, existing surface treatments and coatings etc. Steel substrates must be de-rusted similar to Sa 2.5. The substrate must be sound and all loose particles must be removed

Surface preparation

Concrete, mortar, stone & Bricks- Substrates must be sound, dry, clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and all loose or friable particles must be removed to achieve a laitance and contaminant free, open textured surface.

Steel-Must be cleaned and prepared thoroughly to an acceptable quality i.e. by blast cleaning and vacuum. Avoid dew point conditions.

Application Conditions / Limitations

Substrate Temperature	+10°C min /+40°C max
Ambient Temperature	+10°C min/ +40°C max
Material Temperature	TechnoSeal®EPA (HS) must be at a temperature of between +10°C and +40°C.
Dew Point	Beware of condensation! Substrate temperature during application must be at least 3°C above dew point.

Application Instructions

Substrate Moisture Content-When applied to mat moisture concrete, brush the adhesive well into substrate

Mixing

TechnoSeal® EPA (HS) is supplied in pre-weighed two packs system (base & hardener) which are ready for immediate on-site use. Part mixing of these components is not acceptable and will affect both performance and appearance of the Product. Mix both parts of Resin and Hardener pack together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (max. 600 rpm) until the material becomes smooth in consistency and a uniform grey colour. Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approx. 1 more minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its pot life.

Fire

TechnoFix® CleanZolPlus is flammable. Keep away from sources of ignition. No smoking in the event of fire extinguish with CO2 or foam. Do not use a water jet. TechnoSeal® EPA (HS) is non-flammable.

Storage

Store in dry conditions between 5° C and 30°C, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures the shelf life will be reduced.

Cleaning

All tools and equipments should be cleaned immediately with TechnoFix® CleanZolPlus -Epoxy cleaner solvent after application on using fresh water. Hardened materials must be cleaned mechanically.

DISCLAIMER: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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Please note that this datasheet supersedes all previous versions.

Additional information

Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

Application

- When using a thin layer adhesive, apply the mixed adhesive to the prepared surface with a spatula, trowel, notched trowel, (or with hands protected by gloves). When applying as a repair mortar use some formwork.
- When using for bonding metal profiles onto vertical surfaces ,support and press uniformly using props for at least 12 hours, depending on the thickness applied (not more than 5 mm) and the room temperature. Once hardened check the adhesion by tapping with a hammer.

Typical Properties at 25°C:

Compressive Strength (According to ASTM C-579) @ 30°C.	45-55 MPa @1day 50-60 MPa @ 3day	55-65MPa @ 7day 65-75 MPa @ 14 days
Slant shear Bond Strength (According to ASTM C 882)		>10MPa (Concrete Failure)
Pot Life	>1 hr @20° C. 50 minutes @30° C.	30 minutes @40°C. 20 minutes @50°C.
Recoat time	8 hours @@30 °C.	6 hours @@40°C.
Bond Strength	>2MPa (Concrete Failure)	
Setting Time	12 hours @@30°C.	
Tensile strength	7-8 MPa @ 3day 8-10 MPa @ 7 days	

Curing

- For allowing the operations over floor coated area, the material has to achieve its minimum mechanical properties to perform, i.e.
- Foot Traffic: 1 day @ 25°C.
- Vehicle Traffic: 7 days @ 25°C.

Shelf Life

Shelf life is 24 months from the date of manufacturing. Store in a cool & dry place in unopened condition

Packaging

TechnoSeal®EPA (HS) is supplied in 15 Kg, 20 Kg & 30 kg pre-weighted kit size.

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