

BUILDING TRUST

PRODUCT DATA SHEET Parex High Build Protective Coating

Two-component, solvent-free, epoxy resin high build protective coating

DESCRIPTION

Parex High Build Protective Coating is a two-part, solvent-free epoxy resin product consisting of a pigmented base resin component plus a pale yellow hardener component.

The colour coding enables homogeneous mixing to be easily achieved.

The product is applied as a high build protective coating to steel, iron, aluminium, concrete, masonry, hard natural stone and other construction materials.

Applied coatings are resistant to mechanical damage, abrasion and will give protection against weathering and chemical attack.

The product gives a high build coating in a single application which cures to hard semi-gloss finish within 24 hours.

USES

Offers protection in a variety of applications, including:

- Steel fabrications and reinforcements.
- Floors, walls and soffits.
- Marine and sewage works.
- Warehouse storage areas plus industrial factory areas.
- Exposed reinforcing strand ends.
- Exposed reinforcing steel ends.

CHARACTERISTICS / ADVANTAGES

- Easy to mix and apply.
- Different coloured components for mixing control.
- Excellent adhesion to most construction materials.
- No primer required.
- Impermeable to most liquids and water vapour.
- Good adhesion to dry and matt damp concrete.
- Hardens without shrinkage.
- Outstanding abrasion and mechanical damage resistance.
- Offers excellent protection against weathering and chemical attack.
- Protects against corrosion of reinforcement.
- Can be used as equivalent concrete cover (173µm dry film thickness will provide the same protection as 760mm of concrete).
- Very high carbon dioxide permeability.
- Temperature application range +10°C to +35°C.

APPROVALS / CERTIFICATES

Carbon Dioxide Permeability in accordance with EN 1062-6: Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Determination of carbon dioxide permeability - Classification C_1 .

Product Data Sheet Parex High Build Protective Coating May 2023, Version 01.01 02030312002000058

PRODUCT INFORMATION

Packaging	1.655kg Combined Units		
Shelf life	12 months from the date of manufacture		
Storage conditions	The Product should be kept in dry conditions at a temperature of 5°C to 35°C. Storage at higher temperatures and high humidity may reduce the shelf life.		
Colour	Resin Component Dark		rey
	Hardener Component Pale		llow
	Mixed Product	Concre	Concrete Grey
Density	Mixed product: ~1.65 kg/l		
Dry film thickness	Up to 300 microns in one coat		
Permeability to carbon dioxide	302m	Classification C_1	EN 1062-6
Reaction to fire	When mixed, Parex High Build Protective Coating is classified as non-flam mable.		
Yield	Each 1.655kg unit will yield approximately 1 litre of mixed material.		
Material temperature	Maximum	+35°C	
	Minimum	+10°C	
Ambient air temperature	Maximum	+35°C	
	Minimum	+10°C	+10°C
Dew point	Beware of condensation. Steel substrate temperature during application must be at least +3°C above dew point.		
Substrate temperature	Maximum	<u>+35∘C</u>	
	Minimum	+10°C	
Pot Life	~45 Minutes		
Curing time	Initial usage: ~24 Hours (at 20°C)		
	Full cure: ~7 Days (at 20ºC)		
Tack free time	~6 Hours		

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

CONCRETE / MASONRY / MORTAR / STONE

Concrete and mortar must be at least 3–6 weeks old. Substrate surfaces must be sound, clean, dry or matt damp. Free from standing water, ice, dirt, oil, grease, coatings, laitance, efflorescence, old surface treatments, all loose particles and any other surface contaminants that could affect adhesion of the Product.

STEEL

Surfaces must be clean, dry, free from oil, grease, coatings, rust, scale, all loose particles and any other surface contaminants that could affect adhesion of the bonding agent.

BUILDING TRUST

Product Data Sheet Parex High Build Protective Coating May 2023, Version 01.01 02030312002000058



WOOD

Substrate surfaces must be sound, clean, dry and free from dirt, oil, grease, coatings, all loose particles and any other surface contaminants that could affect adhesion of the Product.

POLYESTER / EPOXY / CERAMICS / GLASS

Surfaces must be clean, dry, free from oil, grease and any other surface contaminants that could affect adhesion of the Coating.

SUBSTRATE PREPARATION

CONCRETE / MASONRY / MORTAR / STONE

Substrates must be prepared mechanically using suitable abrasive blast cleaning, needle gunning, light scabbling, bush hammering, grinding or other suitable equipment to achieve an open-textured, gripping surface profile.

STEEL

Surfaces must be prepared mechanically using suitable abrasive blast cleaning, grinding, rotating wire brush or other suitable equipment to achieve a bright metal finish with a surface profile to satisfy the necessary tensile adhesion strength requirement. Avoid dew point conditions before and during application.

WOOD

Surfaces must be prepared by planing, sanding or other suitable equipment.

POLYESTER / EPOXY

Surfaces must be prepared by abrading using suitable equipment.

CERAMICS / GLASS

Surfaces must be prepared by abrading using suitable equipment. Do not apply to siliconised substrates.

ALL SUBSTRATES

All dust and loose material must be completely removed from all substrate surfaces before application of the product by vacuum / dust removal equipment.

MIXING

Parex High Build Protective Coating base resin com-

SIKA LIMITED

Watchmead Welwyn Garden City Hertfordshire, AL7 1BQ Tel: 01707 394444 Web: www.sika.co.uk Twitter: @SikaLimited ponent is supplied in a container which is large enough to receive the hardener component and act as the mixing vessel. Pour the entire hardener component into the base

container and mix using a slow speed high torque drill with a Mortar Stirrer.

Mixing should be continued for two minutes to achieve a uniform consistency and colour.

APPLICATION

Apply the Parex High Build Protective Coating as a single thick coat using a stiff bristle brush. Do not attempt to brush out the applied material. The applied thickness of 300 microns may be monitored using a simple thickness gauge to check the application during the work.

CLEANING OF EQUIPMENT

All tools and equipment should be cleaned with Sika® Thinner C.

Hardened Parex High Build Protective Coating may only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika®

Product Data Sheet Parex High Build Protective Coating May 2023, Version 01.01 020303120020000058 ParexHighBuildProtectiveCoating-en-GBPAREX-(05-2023)-1-1.pdf

BUILDING TRUST