

EPOX HCR 500

HIGH CHEMICAL-RESISTANCE COATING,
RESISTANT TO SOLVENTS AND ABRASION



DESCRIPTION

Two-component epoxy system modified with epoxy novolacs and specialized aliphatic amines, filled with glass microspheres. Solvent-free.

AREAS OF USE

Coating for surfaces exposed to chemical attack and heavy surface wear.

PACKAGING

Component A: 14 kg in metal cans

Component B: 2 kg in metal cans

COVERAGE

200-300 g/m² per coat

MIXING RATIO

The mixing ratio by weight is:

Comp. A : B = 7 : 1

FEATURES AND BENEFITS

- Excellent overall chemical resistance;
- High adhesion, abrasion resistance, and hardness;
- Easy to apply;
- Easy to clean and sanitize;
- Builds high thickness in a single coat;
- Recoatability; excellent resistance to carbonation;
- Can be applied from +5°C;
- Service temperature from -30°C to +90°C.

CERTIFICATIONS

ISO 9001 certified quality management system (Certificate No. IT.17.0227.01.QMS). APSE S.r.l. is an active member of CONPAVIPER.



SUBSTRATE PREPARATION

The surface to be treated must be free of any contaminants, dry, and sound. For metal surfaces, abrasive blasting to Sa 2½ is required, followed by the specific METALPRIMER. For concrete (CIs) surfaces, shot blasting is required.

Any concrete repairs must be carried out using APSESTUK PASTA or synthetic mortars made with APSEFLOOR 150, ensuring a consistently rough finish. As a bonding primer, we recommend using

APSEPRIMER NS 125 at a coverage of 200 ÷ 300 g/m², with a light surface broadcast of quartz. If the surface is damp, we recommend applying UMIDFOND 3C in 2 successive coats with a minimum consumption of approx. 1 Kg/m². Wait at least 24 hours before applying EPOX HCR 500.

PRODUCT PREPARATION

Two-component product to be thoroughly mixed at the time of use. Pre-mix Part A, then add Part B in the specified ratio. Mix with a low-speed mechanical drill until the product is uniform and lump-free.

APPLICATION METHOD

Apply EPOX HCR 500 evenly and within approx. 20 minutes at +23°C. Two coats can be applied within 24 hours.

Apply using standard painting tools such as a brush or roller.

CURING

For drying times (at 20°C) and cure, refer to the table below.

Pot life	20-30 min
Dry to the touch	4 hours
Light foot traffic with caution	20 hours
Fully cured	7 days

TOOL CLEANUP

Tools used to prepare and apply EPOX 500 HCR must be cleaned immediately after use with DILUEPOX solvent.

HEALTH & SAFETY

For safety requirements, hazard statements, and precautionary advice, refer to the most recent Safety Data Sheet, request it at:

ufficiotecnico@apsebg.it

STORAGE

The product can be stored for 12 months in tightly sealed containers, in a cool, dry place at temperatures between +5°C and +25°C.

DISPOSAL

Dispose of the contents and/or container in accordance with local regulations.



PRODUCT TECHNICAL DATA

PHYSICAL PROPERTIES OF THE MIXTURE (at +20°C)

PROPERTY	STANDARD	RESULT
Color	-	Pigmented
Mixture consistency	-	Fluid
Mixture specific gravity	EN ISO 2811-1	1.55 g/cm ³
Dry residue	EN ISO 3251	100%
Coating thickness per coat	-	Approx. 300 µm

PRODUCT PERFORMANCE IN ACCORDANCE WITH UNI EN 13813

PROPERTY	STANDARD	RESULT
Compressive strength at 28 days	EN 13892-2	≥ 85 N/mm ²
Flexural strength at 28 days	EN 13892-2	≥ 8 N/mm ²
Tensile strength	EN 13892-8	≥ 25 N/mm ²

IN-SERVICE PRODUCT PERFORMANCE

PROPERTY	STANDARD	RESULT		
Temperature resistance	-	+60°C		
Hot thermal shock	-	+120°C		
Minimum Sward - Cocker hardness	-	20		
Absorption	-	4 mm		
Chemical resistance (at 25°C)	EN 13529	AGENT AGGRESSIVE*	FREQUENT CONTACT	ACCIDENTAL CONTACT
		Distilled water	X	
		Sulfuric acid 10%	X	
		Sulfuric acid 30%	X	
		Hydrochloric acid 10%	X	
		Hydrochloric acid 30%	X	
		Lactic acid 10%	X	
		Acetic acid 5%		X
		Acetic acid 10%		X
		Sodium hydroxide 10%	X	
		Sodium hydroxide 50%	X	
		Ethyl alcohol	X	
		Xylene	X	
		Toluene		X

* Chemical resistance ratings are not intended for containment of aggressive liquids

The information above is based on our best technical and application knowledge, as well as our research experience. However, since we cannot directly control jobsite conditions or how the work is carried out, it is provided as general guidance only and is not binding on APSE S.r.l. - V&V Group. This information does not relieve the purchaser of the responsibility to personally test our products to confirm their suitability for the intended use. The customer must also verify that this technical data sheet applies to the product batch in question and has not been superseded by later editions. If in doubt, please contact our Technical Office in advance. APSE S.r.l. - V&V Group reserves the right to make technical changes of any kind without prior notice. This revision cancels and replaces all previous versions and is subject to ongoing data review in new applicable regulations and our ISO 9001 management system. Please check the most up-to-date version of this Technical Data Sheet on our website: www.apse.it

