APSE®
floor products since 1964

No. 449 - REV. 04/2025

EPOX HCR 300

HIGH-CHEMICAL-RESISTANCE COATING,
RESISTANT TO SOLVENTS AND ABRASION



DESCRIPTION
Two-component epoxy system modified with epoxy novolacs and specialized amines. Solvent-free.

APPLICATIONS
Coating for surfaces exposed to chemical attack.

PACKAGING
Component A: 10 kg in metal cans
Component B: 2,5 kg in metal cans

COVERAGE
200-300 g/m2 per coat

MIXING RATIO
The mixing ratio by weight is:
Comp. A : B = 4 : 1

FEATURES AND BENEFITS
- Excellent overall chemical resistance;
- High adhesion, wear resistance, and hardness;
- Easy to apply;
- Easy to clean and sanitize;
- Builds high film thickness in a single coat;
- Recoatable; 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 blast clean to SA 2 1/2 and treat with the specific primer METALPRIMER. For concrete 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 rate of 200 ÷ 300 g/m², with a light surface broadcast of quartz. Where surfaces are damp, we recommend applying UMIDFOND 3C in 2 consecutive coats with a minimum consumption of approx. 1 Kg/m². Wait at least 24 hours before applying EPOX HCR 300.

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

APPLICATION METHOD
Apply EPOX HCR 300 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 curing, refer to the table below.

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

TOOL CLEANING
Tools used to prepare and apply EPOX 300 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
This product can be stored for 12 months in tightly sealed containers, kept 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.

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HIGH-RESISTANCE COATING AGAINST CHEMICALS, SOLVENTS, AND ABRASION



PRODUCT TECHNICAL DATA

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

PROPERTY	STANDARD	RESULT
Color	-	Tinted to the RAL color scale
Mixture consistency	-	Fluid
Mixture specific gravity	EN ISO 2811-1	1,25 ± 0,05 g/cm3
Viscosity	EN 8490	1050 ± 100 mPa·s
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/mm2
Flexural strength at 28 days	EN 13892-2	≥ 8 N/mm2
Tensile strength	EN 13892-8	≥ 25 N/mm2

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 data shown above is based on our best technical knowledge, application experience, and research findings. However, since we cannot directly control jobsite conditions or how the work is carried out, this information is provided as general guidance and is not binding in any way on APSE S.r.l. - V&V Group. The information provided does not relieve the purchaser of the responsibility to personally test our products to verify their suitability for the intended use. The customer must also ensure that this technical data sheet is valid for the product batch of interest and has not been superseded by later editions. If in doubt, please contact our Technical Department 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, subject to ongo review in line with new applicable standards and our ISO 9001 management system. Please check the most up-to-date version of this Te Data Sheet on our website: www.apse.it