

QUICK SPRAY HC 70

2K SPRAYABLE ELASTOMERIC LINING SYSTEM FOR XPS/EPS

QUICKSPRAY HC70

is specially designed for the coating respectively lining of XPS/ EPS based structures, figures frameworks and therefore it displays a membrane with excellent flexural stiffness and higher tensile strength.

QUICKSPRAY HC70

is easily and rapidly applied to any thickness in just one application using specialised spraying equipment and together with its prolonged working times and instant curing properties, provides extremely fast installation and return to service times.

QUICKSPRAY HC70

is UV resistant, and suitable for foot and vehicle traffic.

USES

- XPS/EPS based structures, figures and frameworks
- Underbody layer for rail vehicles and SUV's

FEATURES

- Mainly designed for GRP mould injection or coating
- Fast spray applied installation.
- Longer working time achieves better surface finish
- Fast curing – touch dry in 40 seconds.
- Two component, high performance product.
- Completely seamless, even across multiple substrates.
- Excellent adhesion to XPS/EPS based materials, concrete, render, steel, aluminium.
- Resistant to most standard chemicals, salts, acids, alkalis and fuel oils.
- Designed for extreme climates.
- 100% solids, VOC and solvent free.
- High bond strength to suitably prepared substrates.
- Thermally stable, even at extreme temperatures.
- High tensile strength and superior flexural stiffness

SURFACE PREPARATION

XPS/EPS substrates should be dry and do not need any additional pre-preparation like grinding.

All cementitious substrates must be structurally sound. Surfaces must be entirely free of oil, grease, paint, dust, curing agents, release agents or other surface contamination. Loose or unsound material should be removed. Sweep and vacuum to remove all dust and debris.

Steel substrates should be prepared to a class 2 ½ near white blast finish with a surface profile of 80 microns.

Mask all adjacent surfaces and protect the surrounding area from overspray. Do not apply unless the substrate temperature is 3 C or greater than dew point.

APPLICATION

QuickSpray HC70 should only be applied by applicators who have been trained and are currently approved by the manufacturer. To obtain optimum results, **QuickSpray HC70** should be spray applied when the ambient air and surface temperature is between between 5°C und 50°C.

Use high-pressure plural component spray equipment, 2:1 transfer pumps are recommended to transport the material from the storage vessel to the proportioning pump. The plural component proportioning spray machine must be capable of supplying each component within +/- 10% of the desired 1:1 by volume mixing ratio. Hose heaters should be set to ensure material is delivered at 70°C to the spray gun. Hose pressures and temperature will vary dependent on the equipment used and site conditions and temperature.

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PROCESSING PROPERTIES

INFORMATION ABOUT THE USE OF THE PRODUCT

	DATA
Mixing ratio of Comp. A to Comp. B	1 : 1 by volume
Material consumption [kg/m ² /1mm]	Approx. 1.0 - 1.2
Recommended thickness [mm]	Minimum: 0.5 Maximum: indefinite
Gel time at 25°C [sec.]	15 - 20 (dependent on the temperature of the substrate)
Tack Free-Time at 25°C [sec.]	30 - 40 (dependent on the temperature of the ambient)
Over coat cycle [h]	0 - 8 (without any pre-treatment)
Curing/loading after [h]	Walkable: 1 Mechanical: 2 Chemical: 12
Temperature range for application (ambient) [°C]	0 - +50
Temperature range for application (substrate) [°C]	
Material Temperature (Preconditioning) [°C]	20 - 30
Material Temperature (Spraying) [°C]	Comp. B: 70 - 80 Comp. A: 70 - 80
Recommended spray pressure [psi]	2,200 - 2,850
Recommended module and tip size	AF2929 and 424-438
Maximal relative air humidity for application [%]	80-85
Pay attention to the dew point limit	min. 3K > DP (dew point)

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PHYSICAL PROPERTIES

INFORMATION ABOUT THE USE OF THE PRODUCT

	DATA	
Chemical Base	-	Comp. A: MDI-Prepolymer Comp. B: Functionalized liquid polymers mixture
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%
Solids content	DIN EN 827 / ASTM D-2697	100%
Color	-	miscellaneous (on request)
Viscosity [mPa*s] @ 25° C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 600 – 1.000 Comp. B: 400 – 800
Density [g/cm ³] @ 20° C	DIN EN ISO 2811-2 / ASTM D-1217	Comp A: 1.17 ± 0,02 Comp B: 1.00 ± 0.02
Density [g/cm ³]	EN ISO 1183 / ASTM D-792	0.88 ± 0.02
Tensile strength [MPa]	ISO 37 / ASTM D-638	≥ 21
Flexural Stiffness [MPa]	DIN EN ISO 178	≥ 20
Flexural Modulus [MPa]		≥ 684
Elongation at break [%]	ISO 37 / ASTM D-638	≥ 13
Hardness [Shore D]	ISO 868 / ASTM D-2240	65 - 75

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Min. Process temp. [°C]	ASTM D-2485	Dry: -40
Max. Process temp. [°C]		Dry: +120
Surface resistance [Ohm]	DIN IEC 60167	≥ 1,0*10 ¹¹
Volume resistance [Ohm]	DIN IEC 60093	
Storage conditions [°C]	DIN EN 12701	<p>Comp. B: Store in original tightly sealed containers at 0-30°C. Avoid contact with moisture.</p> <p>Comp. A: Store in original tightly sealed containers at 10-35°C. Avoid contact with moisture. Storage below the recommended min. temp. may result in freezing of the isocyanate. If the isocyanate does not fully melt out when raised to the processing temperature it may be necessary to re-melt at a temp. of 80°C with some heating jackets.</p>
Shelf life	-	<p>Comp. B: Approximately 12 months</p> <p>Comp. A: Approximately 12 months</p>

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IMPORTANT NOTE

All test results and timings provided are based on tests carried out in laboratory conditions. Substrate and atmospheric temperature, humidity, condition and application thickness will all influence these results and therefore they must be used as a guide only.

QuickSpray HC70 is UV stable, therefore UV light will not affect its functional characteristics. However, **QuickSpray HC70** is not colour stable.

PACKING

20 and 200 Liter drums on request IBC's

STORAGE / SHELF LIFE

When stored in dry conditions out of direct sunlight in original unopened packaging, this product has a shelf life of approximately 12 months from the date of manufacture. Avoid storing product in temperatures above 35°C and below 10°C as this may reduce the products shelf life.

Drums, including empty drums should always be kept tightly sealed. During storage and processing, avoid any contamination with other liquids and moist air which may cause solids to form leading to blockages in filters, pumps and/or pipelines.

CLEANING

Prior to curing, tools may be cleaned with cleaning solvents. Once hard, by mechanical means only.

TECHNICAL SERVICES

Detailed technical assistance and further information regarding this system and its relevant application specifications are available from VIP Technical Services.

HEALTH AND SAFETY

Respiratory protection is mandatory for all sprayers and workers in the immediate vicinity of spray operations. A copy of the Model Respiratory Protection Program, developed by API is available at www.polyurethane.org and from the supplier.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, at the time of printing. However the accuracy, completeness and repeatability of said tests results are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine the suitability of the product / system for his own particular project and application. User assumes all risk and liability resulting from his use of this product / system. We do not suggest or guarantee that any hazards listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or incorrect use of the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and standard application procedures. Test performance results were obtained in a controlled environment and the manufacturer makes no claim that these tests or any other tests, accurately represent all environments.

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This technical specification supersedes all previous data sheets.