

FPCSCORE

PRODUCT

PRODUCT DESCRIPTION

FIELDS OF APPLICATION

PRODUCT FEATURES

COLOUR PACKAGING

PROPERTIES

Specific weight (A+B)
Viscosity (A+B)
Mix Ratio
Gel time
Maturation/aging time
Stability at 65°C
Elongation at break
Tensile strength
Tear strength
Abrasion
Hardness
Vapour transmission
Thermal conductivity

POLYUREA SYSTEM 100% VOC FREE

Chemical Resistance

EPAPROOF FPCS CORE : Polyurea based elastomeric coating system

EPAPROOF FPCS CORE is a two-component system, based on aromatic isocyanides and special flexible amines for protecting metals and cement surfaces as well as wood and EPS. The product is 100% solids and it is formulated to give a **resistance against the aggressive chemical agents**.

Elastomeric membrane for

- Protecting surfaces with chemical resistance functions
- Bodywork and truck beds
- Industrial floors and protecting cement items
- Waterproofing
- Finishing and protecting wood and EPS items for sculptures and set designs

EPAPROOF FPCS CORE is an elastomeric system whose two components react to create a hard coating, without losses of weight or secondary reaction products. This membrane has a variable gel time that, in any case, is still much faster than other products commonly available on the market. For this reason, specific equipment is needed for its application. It can also be applied at very low temperatures and, however, environmental conditions do not modify its performances and final characteristics. The product has a glass transition temperature (Tg) equal to +121 ° C and a pH between 4 and 11.

RAL table and colours on request

Metal drums of 100 kg and 430 kg

VALUE		UNIT	STANDARD
MIN	MAX		
1.1	1.2	Kg/l	UNI EN ISO 2811-1
550	650	mPa.s	UNI EN ISO 3219 Brookfield
1:1		vol	Epa
4 - 7		sec	Epa
>36		h	Epa
60	90	days	Epa
270		%	UNI NE ISO 527
14		MPa	UNI EN ISO 527
85 - 100		kN/mm	UNI EN ISO 527
10 - 20		mg	UNI EN ISO 5470-1
40 - 45		Shore D	UNI EN ISO 868
0,025		-	ASTM E96
0,14		W/mk	ISO 8301

FPCSCORE

1. Preparation of the surfaces: the metallic surfaces must be sanded to remove every presence of rust and impurities.

It is recommended to treat cement surfaces mechanically and to apply an adhesion and impregnating promoter. Depending on the situations, a primer from the EPAFLEX, EPAPOX and EPACRETE product range is recommended. The support must be clean and not contain any crumbly or loose parts.

2. Preparation of the product: The high pressure equipment must always be in perfect condition, clean and efficient. Make sure the return pumps are clean and efficient and before starting to spray, circulate the product through the system. In any case, carefully follow the manufacturer's instructions.

3. Application: Once the support has been prepared and the product recirculated and heated, start spraying **EPAPROOF FPCS CORE** according to the manufacturer's instructions. The product can be applied at temperatures ranging from -30 ° C to 170 ° C. Once applied the coating can be used only after the aging/maturation time indicated in the table above. In order to obtain the physical-mechanical characteristics reported in the above table in the spraying phase must be complied with a range of thickness between 1.8 to 2.5 mm.

APPLICATION

The product must be stored in a cool place away from direct sunlight, and at a temperature between 5°C and 35°C. Shelf-life of 12 months

STORAGE

Avoid contact with the skin and mucous membranes. Use suitable protections, in particular, mask and gloves. Avoid inhaling the product and, if possible, ventilate the work areas.

SAFETY

The data contained in this document as well as advice or other support services are based on our current knowledge and experience. In view of many factors that may affect processing and application of our products, this data does not relieve processors from carrying out their own investigations and tests, particularly with regards to the suitability of the goods supplied for the processes and purposes they intend to use them for; neither does this data imply and guarantee of certain properties, or the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, measured values, etc given herein may change without prior notice and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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REV.02.260713
EMISSION DATE:16.05.13
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