

# EPOSCHIELD/C

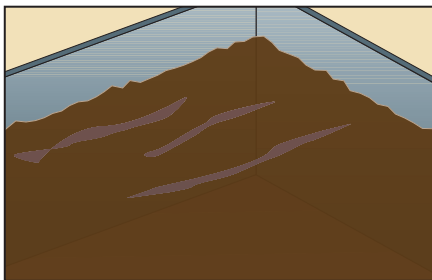
EPOXY-TAR COATING PROTECTIVE ANTI-ACID  
TWO-COMPONENT PRODUCT  
FOR CONCRETE AND METAL SURFACES

GRANTS *LEED* CREDITS

CARATTERISTICHE		IMPATTO AMBIENTALE	MODALITÀ D'IMPIEGO				AVVERTENZE
BICOMPONENTE	IMPERMEABILE		MESCOLARE MECCANICAMENTE	APPLICAZIONE A SPRUZZO	APPLICAZIONE A PENNELLO	APPLICAZIONE A RULLO	

## PROBLEM

**TO PROTECT CONCRETE STRUCTURES AGAINST CHEMICAL AGGRESSION.**



If concrete structures are corroded by aggressive marine and industrial atmospheres, they rapidly degrade. To overcome such aggression, an epoxy-tar coating must be used to protect them against chemical aggression.

## SOLUTION

A product containing epoxy-polyamide resins modified with super-dry selected tar pitch, hardened at ambient temperature. **EPOSCHIELD/C** has excellent resistance to marine water, diluted alkaline or acid solutions and oils and hydrocarbons.

## APPLICATION FIELDS

Due to its properties, the **EPOSCHIELD/C** coating is specifically used on concrete structures in sewage pipes, digesters, gasometers, road decks, as well as tanks for saline solutions and raw oils with temperatures up to 80°C. It is suitable for protecting steel or zinc plated metal surfaces. An anti-corrosion coating suitable for immersion cycles in aggressive marine and industrial atmospheres.

## ADVANTAGES

- Excellent resistance against aggressive chemical agents.
- Anti-acid and anti-corrosion protection.



## METHOD OF USE

### • PREPARING THE SUPPORT

Before painting, concrete surfaces must be cleaned to remove friable and loose parts. Remove all traces of oil, if necessary by decontaminating either chemically or mechanically - i.e. sanding or washing with water. Restore any holes, cracks and cavities with RESISTO UNIFIX (1) mortar.

### • PREPARE THE MIX AND APPLICATION

Carefully mix component **A** with component **B** until you obtain a uniform compound (2).

#### Mixing ratio

Component A: Component B = 1:1

Dilute the mix with a minimum of 5% of thinner for epoxy/polyurethane. The dilution may reach a max of 10% for applications by spraying. In the absence of a thinner for epoxy, a paint thinner may be used.

The application may be made with a brush, roller or spray (3). Wait at least 6 hours between the first and second coat.

• **COVERAGE**  
300 g/m<sup>2</sup> per coat (average coverage with dilution at 5%).

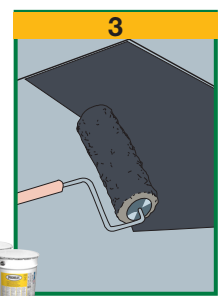
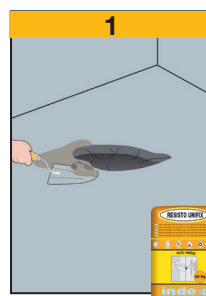
• **WARNINGS**  
• Apply at temperatures in range from +10°C and +35°C.

• **Hardening and, therefore, painting-over time, can vary considerably depending on environmental factors and ventilation.**

• Wear gloves, protective garments, protect your eyes and face.

• Only use in aired environments.

• Clean tools and surfaces with a thinner specifically designed for epoxy resins.



# TECHNICAL CHARACTERISTICS

		EPOSCHIELD/C	
	Standard	COMPONENT A	COMPONENT B
Component		Thick liquid	Liquid
Appearance		Grey	Black
Colour		1.70 ± 0.10 kg/ℓ	1.60 ± 0.10 kg/ℓ
Apparent density	EN 2811-1	80 ± 2%	80 ± 2%
Solid content in weight		22,000 ± 2,000 cps	7,000 ± 1,000 cps
Brookfield viscosity at 20°C		10	10
Mix ratio		12 months	12 months
Storage in original packaging in a dry place			
<b>Product properties and workability</b>	<b>Regulations</b>		
Apparent density of the product	EN 2811-1	1.65 ± 0.05 kg/ℓ	
Workable mix duration - at 20°C (*)		approx. 4-6 h	
Workable mix duration - at 30°C (*)		approx. 3 h	
Wait time - for dust-free drying (*)		approx. 60-90 minutes	
Wait time - for deep drying (*)		approx. 24-36 h	
Wait time - for complete drying (*)		approx. 7 days	
Wait time - between the first and second coat (*)		approx. 6 ÷ 24 h	
Application temperature		+10°C ÷ +35°C	
Average application thickness		300 μ (per coat)	
<b>Performance characteristics</b>	<b>Regulations</b>	<b>Product performance</b>	
<b>Class and type</b>	EN 1504-2	<b>C PI-MC-IR-RC</b>	
<b>Permeability to water vapour</b>	EN 7783	5 m < Sd < 50 m - class II	
<b>Adhesion test</b>	EN 1542	≥3.5 MPa	
<b>Water absorption through capillarity</b>	EN 1062-3	w < 0.01 kg/m <sup>2</sup> ·h <sup>0.5</sup>	
<b>Resistance to abrasion</b>	EN 5470-1	200 mg	
<b>Permeability to CO<sub>2</sub></b>	EN 1062-6	Sd > 50 m	
<b>Chemical resistance</b>	EN 13529	No visible defect	
Thermal resistance - Working temperature		-40°C ÷ +100°C	
<b>Reaction to fire</b>	EN 13501-1	Euroclass E	
<b>Hazardous substances</b>	EN 1504-2	Complies with note in ZA.1	

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. **The data shown may vary depending on the specific work site conditions: temperature, humidity, ventilation, absorbency of the base coat.**

(\*) The stated times are longer or shorter as the temperature decreases or increases.

Pursuant to the general principles defined in EN 1504-2 - Assessment principles for the use of products and systems.

The numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

## PACKAGING

### EPOSCHIELD/C

- Component A: 10 kg Pail
- Component B: 10 kg Pail

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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