

EP-22 SOLVENT-FREE EPOXY COATING

DESCRIPTION

Double- component, epoxy based , solvent-free, floor coating material with excellent mechanical and chemical resistance.Also hygienic and easy to clean.

AREA OF USE

- Applied as topcoat on metal areas in factories, warehouses, shopping centers, workshops, aircraft hangars, schools, hospitals, pharmaceuticals, water tanks, food industry, laboratories, garages, treatment plants, areas with corrosive chemicals and heavy forklifts.
- Can be used as wall coating to improve the mechanical and chemical resistance .

APPLICATION

a) Surface Quality

- Concrete surface should be clean, hard, having sufficient compressive strength (min 25 N/mm²) and having pull-off strength of minimum 1,5 N/mm²
- The surface must be free of contaminants as dust,oil and curing materials.
- The syrup layer on the surface should be taken. (Shot-Blast,Rota Tiger, Freze vb.)

b) Surface Preparation

- Concrete surfaces should be prepared using abrasive blast cleaning to achieve an open textured surface by the removal of syrup.
- Weak concrete must be removed, blowholes, voids must be fully exposed.
- All dust, loose and friable material must be removed before application by brush and / or vacuum with a vacuum cleaner.
- Cracks in concrete should be cut in V-shape, cleaned and false joints should be cleaned.
- Repairs of surface, blowholes / voids, cracks, false joints should be filled with a mixture of Omega Concrete Empregnated Primer + Quartz mixture

APPLICATION METHOD

- A and B components should be mixed well seperately. Then the B component will be poured into A component and mixed minimum 3 minutes untill having a homogenous mixture.
- Minimum 300-400 rpm electric mixers should be used for mixing.
- The obtained mixture is drawn on the flat surface with the help of flat trowels, then scanned with rollers.

CONSUMPTION

Depending on concrete quality: 0,300 - 0,600 kg/m²

PACKAGING

Available in sets of 25 kg; (A: 22 kg + B: 3 kg)

STORAGE

12 months in unopened original package,when stored in a cool, dry environment .

SAFETY PRECAUTIONS

- Uncured material components are due to irritant effects to skin and eye. When contact occurred,wash with soap and plenty of water, in severe cases obtain medical attention.
- Gloves and safety goggles must be worn during application.
- Avoid contamination of uncured materials to foods.
- Approaching work area with fire is dangerous.
- Should be kept out of the reach of children.
- The Material Safety Data Sheets are available from our technical service.
- Fully cured material is completely harmless.

CHARACTERISTICS

- Mechanic and abrasion resistance.
- Easy to clean, stretch resistance, hygienic
- Resistant to chemicals.
- Resistant to sea water, waste water ,some dilute acids and bases, salt solutions, fuels, lubricants, various chemicals such as aliphatic hydrocarbons.
- Detailed chemical resistance table are available from our technical service.

TECHNICAL SPECIFICATIONS		EP-22	
Chemical Structure:	Epoxy		
Density:	A+B Component : -1.6 kg/lit (at +23 °C)	(DİN EN ISO 2811-1)	
Solid Content	~%100 (by volume) / ~ %100 (by mass)		
Mixing Ratio (A+B)	22/3 (by mass)		
Machanical/Physical Specifications: Compressive Strenght Bending Strenght Adhesion Strenght Shore D Hardness	Mortar: -60 N/mm ₂ (28 gün / +23 °C) Mortar: -30 N/mm ₂ (28 gün / +23 °C) > 1.5 N/mm ₂ (pulling off from concrete) 50 mg (CS 10/1000/1000) 8 gün / +23 °C 85 (7 days/ +23 °C)	(EN 196-1) (EN 178) (ISO 4624) (DİN 53109 Taber Abrasion Test) (DİN 53505)	
Application Requirements: Surface Temperature Environmental Temperature Surface moisture content	Min +10 °C / Max+30 °C Min +15 °C / Max +40 °C Humidity < %4 Test method: With temperature and humidity meter.		
Relative Humidity:	Max %80		
Condensation:	Condensation on surface is not allowed. Moisture due to condensation on the surface prevents adhesion and the coating peeling occurs.		
Application Time:	Temperature +10 °C +20 °C +30 °C	Time ~ 60 min ~ 30 min ~ 15 min	
Pot Life:	Temperature +23 °C NOTE: these tests were made under laboratory conditions with a mixture of 200 grams.	Time ~ 30 min	
Waiting Time Between Layers	Surface Temperature +20 °C	Min 10 hours	Max 48 hours
IMPORTANT ISSUES	While multiple layering , make sure that the standby time is up to 48 hour before applying the second coat If this time is exceeded, the surface should be roughened.		