

UNEPOX COMPOUND ST 2K Epoxy Putty

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Description

UNEPOX COMPUND ST 2K is a two components high build polyamine cured solventfree epoxy putty on concrete and other suitable substrates. Thixotropic, solventfree epoxy resin and graded special hardener, filler and characteristic agents

Principal Characteristics

- Outstanding water and crude oil resistance
- Good abrasion resistance
- Well tolerate up to 1 cm thicknesses at overlaps no sagging
- Good resistance against temperatures up to 110 °C in dry conditions
- Cures at temperatures down to +10 °C
- Excellent water and corrosion resistance
- Provides high strength
- Resistant to impact load
- Easy application
- Excellent adhesion to steel, concrete, metal surfaces

Application Areas

- Bedding and gap filling on concrete repairing
- Floor and surface resurfacing before the topcoat applications
- Repairing spots, pinholes, minor depressions and cracks
- Damaged concrete surfaces

Colours:White Beige-Grey

BASIC DATA (for mixed product at 20 °C)

Mass density	approx. 2,25 g/cm ³
Solids content	approx. 100 % by volume
Touch after dry	4-6 hours
Pot Life	@20°C approx. 45 min; @30°C approx. 25 min
Overcoating interval	Min.24 hours Max.48 hours
Full cure after	7 days
Curing Time	12-16 hours
Physical Data	
Electrical Conductivity	~10 ¹³ Ohm
Pull off Adhesion	after 7 days 4,6 Mpa average(Concrete Failure)
Thermal expansion	20-22.10 ⁻⁶
Flexural Strength	ASTM C348 at 7 days >13 Mpa
Tensile Strength	ASTM C307 at 7 days >13 Mpa
Compressive Strength	ASTM C579 at 7 days >62 N/mm ²
Shear Bond Strength	ASTM C882 >2050 psi
Theoretical spreading rate	2,2 kg /m ² at 1 mm dry film thickness

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Packaging

3,750 kg base+1,250 kg hardener in cans.

Chemical resistance

UNEPOX COMPOUND ST 2K is resistant to a wide range of chemicals.

Resistance to spillages include;

- Diluted acids; Sulphuric acid, Hydrochloric acid, Acetic acid, Lactic acid
- Diluted alkalis; Sodium hydroxide, Ammonia solution
- Toluene
- Petrol
- Kerosene
- Hydraulic oil
- Vegetable oils
- Used sump oil
- Sodium chloride

Instruction For Use

Mixing ratio :by weight base to hardener 3:1
Pot life at 20 °C :45 min.
Application Method :Putty Knife or Spatula

- The temperature of the mixed should be above 10 °C
- Thinner or water should not be added to product so that causes sagging.

Surface Preparation

For the best adhesion to the substrates, remove oil and grease, also remove all salt and other contaminants by high pressure water jet, If necessary use abrasive blasting or sand blasting.

Application

Mix and stir the two components thoroughly until the mixing to be light grey homogenically
Apply only on dry&clean surface by considering temperature to be above dew point to avoid condensation.
Provide adequate ventilation during application.
Apply by Putty Knife to achieve the required smoothness,

Subsequent Coat

Need an intermediate coat for top coats,Specially UNEPOX PRIMER, UNEPOX PRIMER WB , UNDERCOAT highly recommended.

Cleaning Solvent

SPECIAL THINNER UP-002

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Drying&Curing Time

Ambient Temperature	10°C	23°C	40°C
Touch Dry	30 h	18 h	12 h
Walk on Dry	42 h	24 h	16 h
Dry to Over Coat	46 h	30 h	20 h
Full Curing Time	10 d	7 d	3 d

Health & safety

UNEPOX COMPOUND ST 2K should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin Protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice. Refer Material Safety Data Sheet for further details.

Note

The statements made on this technical sheet are believed to be true and accurate, and are intended to provide a guide for approved construction practices. UNİCA does not make, nor does it authorize any agent or representative to make any warranty, express or implied, concerning this material as workmanship, weather, construction, equipment utilized and other variables affecting results are all beyond our control. UNİCA warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. In no event shall UNİCA be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or work performed. UNİCA shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.