Epoxy Topcoat

RENGA TC

Solvent-free · Two-component · Smooth epoxy topcoat

PRODUCT DESCRIPTION

A two-component, solvent-free, easy-to-apply epoxy topcoat with a smooth finish, designed for industrial floors; an anti-slip surface can be achieved.

FEATURES

- Solvent-free.
- High mechanical strength.
- Liquid-tight.
- Gloss finish.
- Easy to apply; easy to clean and maintain.
- An anti-slip surface can be achieved.

AREAS OF USE

Used as a topcoat on concrete and cement-based surfaces in warehouses, production areas, shopping centres, hangars, exhibition and fair areas and car parks.

TECHNICAL PROPERTIES

PROPERTY	VALUE	STANDARD
Colour	Component A: RAL colours · Component B: clear	
Component densities (20 °C)	A: 1.70 ± 0.10 / B: 1.00 ± 0.10 g/cm³	ISO 2811
Mixing ratio (A+B)	19 + 5 (by weight)	
Viscosity (mixed, 25 °C)	1500 cP	EN ISO 3219
Pot life	40–60 minutes	
Hardness (7 days)	> 75 Shore D	ISO 868
Abrasion resistance (7 days)	30–35 mg	
Compressive strength	50 N/mm²	EN 196-1
Flexural strength	20 N/mm²	
Adhesion to concrete	1.5 N/mm²	ASTM D4541
Consumption	Min. 0.7–0.9 kg/m²	

Values are based on tests at 23 °C and 50% relative humidity and may vary at other temperatures and humidity levels.

APPLICATION

Surface preparation. Remove oil, wax, grease, water repellents, loose particles and dust that would weaken adhesion using a floor milling machine. New concrete must be at least 28 days old; the surface must be primed before application. The concrete must meet at least the following: compressive strength R28 = 15 MPa, temperature between +10 °C and +30 °C, surface moisture below 4%.

Mixing. Pour component B completely into component A and mix with a mechanical mixer at 300 rpm for at least 3 minutes until homogeneous. The product temperature must not be below 15 °C. Prepare only as much as can be used within the pot life.

Application. Apply the mix with a short-pile roller in both directions. Relative humidity max. 80%; ambient and surface temperature between +10 °C and +30 °C, and the floor temperature at least 3 °C above the dew point. Outdoors, there must be no rain for 24 hours before, during and 24 hours after application.

Curing and protection. Protect the applied surface for at least 24 hours. The material reaches the mechanical values stated in this data sheet in approx. 7 days.

PACKAGING AND STORAGE

Packaging	24 kg kit · A: 19 kg + B: 5 kg, in special metal packaging
Storage	Between +5 °C and +25 °C in a dry place, in its unopened original packaging. Containers of unused components must be closed tightly and airtight.
Shelf life	At least 12 months

HEALTH AND SAFETY

Keep flammable products away from the application area; do not smoke. Ventilate the area continuously; wear goggles and gloves. In case of eye contact, rinse with plenty of water. Keep out of the reach of children. For professional use only. For detailed information, refer to the product's safety data sheet (SDS).

The information in this technical data sheet is based on Renga Plus laboratory experience and field applications and applies to the product as of the date of publication. As substrate, weather and application conditions affect product performance, the information is a general guide; the suitability of the product for its intended purpose must be assessed by competent persons before each application. Renga Plus reserves the right to change its products without notice; a new edition of this data sheet supersedes all previous editions. Confirm the current edition at rengaplus.com or with our technical team. For handling, storage, first aid and personal protection information, refer to the product's safety data sheet (SDS).