Technical Data Sheet
Article No. 6300

Epoxy UV 100 TX

(formerly Acolan Sediment Resin)
Thixotropic, transparent epoxy resin with little tendency to yellow

Range of use

Remmers Epoxy UV 100 TX is an unpigmented epoxy resin binder that is used as a binder for flake and blinded coatings or as a pore filler on open-pored, epoxy resin screeds:

Application examples:

- Consumer markets
- Workshops
- Factory halls
- Exhibition or assembly rooms
- Wholesale and retail stores
- Kindergartens
- Schools
- Hospitals
- Entrance areas
- Sales rooms
- Shop fitting
- Public areas

Property profile

Epoxy UV 100 TX is a transparent, 2-component, liquid epoxy resin on a bisphenol A base:

- Thixotropic, stable
- Little tendency to yellow
- Plasticizer-free
- Nonylphenol and alkylphenol-free
- Can be subjected to mechanical loads
- Can be subjected to chemical loads

Characteristic data of the product

	Comp. A	Comp. B	Mixture
Density (25 °C):	1.1 g/cm³	1.1 g/cm³	1.1 g/cm³
Viscosity (25 °C):	thixotropic	500 mPa·s	thixotropic

Substrates

The primed substrate must be load-bearing, dimensionally stable, sound and free of loose material, dust, oil, grease, rubber tyre marks and any other substances that could interfere with adhesion. Tensile strength of the surface of the substrate must be 1.5 N/mm² on average, compressive strength at least 25 N/mm².

The substrate should have achieved its compensation moisture balance and be protected from the ingress of moisture from behind, also during utilisation.

- Concrete max. 4 % by mass
- Cement screed max. 4 % by mass
- Anhydrite screed max. 0.3 % by mass
- Magnesite screed 2-4 % by mass

In the cases of anhydrite and magnesite screed, the ingress of moisture from building elements or the ground must be reliably prevented.

Substrate preparation

The substrate should be prepared by suitable measures, e.g. steel ball jetting or diamond grinding, so that it meets the requirements given above.

Broken out and missing areas in the substrate should be closed with the Remmers PCC System or with Remmers EP mortars, flush with the surface.

Preparing the resin

Add the entire contents of the hardener (comp. B) to the basic compound (comp. A) and mix thoroughly with a slow speed, electric mixer (approx. 300-400 rpm). Then pour the material into a separate container and mix again thoroughly.

When working with filled systems, the corresponding quantity of filler is added to the epoxy resin mixture while mixing slowly and thoroughly mixed.

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The ready-to-use mixture is poured directly after mixing onto the prepared surface and distributed with suitable tools.

Mixing ratio

64 : 36 parts by weight

Pot-life

At 20 °C and 60 % relative humidity, working time is approx. 20 minutes. Higher temperatures reduce; lower temperatures increase pot-life.

Notes on working

When working, wear suitable protective equipment (see also "Personal protective equipment")

Application method
Depending on application, apply with a rubber blade, toothed rubber blade, toothed spreader, epoxy roller or smoothing trowel.

Waiting times:
The waiting time between working operations should be at least 6 hours and max. 2 days at 20 °C. If waiting times are longer than 48 hours, the surface of the last working operation must be blinded with fire-dried, quartz sand. The times given are reduced at higher temperatures and increased at lower temperatures.

Working temperature:
The temperature of the material, air and substrate should be at least 8 °C and max. 30 °C. Relative humidity should not exceed 80 %. The temperature of the substrate must be at least 3 °C above the dew point temperature.

Drying time:
At 20 °C and 60 % relative humidity: Foot traffic after 6 hours, mechanical loads after 2 days and full loading capacity after 7 days. At lower temperatures correspondingly longer.

During the curing process (approx. 24 hours at 20 °C), protect the applied material from moisture; otherwise the surface may be disturbed and adhesion may be reduced.

Application examples

Fixed/blinded layer: Distribute the mixed material with a toothed trowel (toothed blade No. 22) or a toothed rubber blade (3 mm), texture evenly with a porous roller and, if desired, blind in the fresh state.

Application rate, depending on substrate and application: approx. 0.30-0.40 kg/m² epoxy resin.

Pore filler:
Pour the mixed material onto the surface, distribute with a suitable tool, e.g. a rubber blade, and then work through with a paint or texture roller so that an even surface texture is achieved.

Application rate, depending on substrate and application: approx. 0.30-0.50 kg/m²

Tools, cleaning

Smoothing trowel, toothed trowel, rubber blade, epoxy roller, spiked roller, mixing equipment, if required a positive mixer.

Clean tools/equipment and any splashed material while fresh with V 101 Thinner.

When cleaning, observe corresponding protective measures (see "Personal protective equipment").

Personal protective equipment

Suitable nitrile rubber gloves (e.g. Tricotril made by KCL), protective glasses, splash protection, long-sleeved shirt or arm covers.

When spraying, further personal protective equipment is required (respiratory filter). See Safety Data Sheet for information.

Notes

All of the values and application rates given above were determined with standard colours under laboratory conditions (20 °C). When worked at the building site, these values may deviate slightly.

Grinding mechanical loads cause wear marks. Not suitable for vehicles with metal or polyamide tyres.

Epoxy UV 100 TX has little tendency to yellow but epoxy resins are generally not completely colour stable when exposed to UV-light or weather.

When coating continuous surfaces, always use material with the same batch number. There may be slight differences in the colour, degree of gloss and texture otherwise.

Further notes on working, system construction and maintenance of the products listed are found in the latest Technical Data Sheets and in Remmers system recommendations.

Packaging, application rate, shelf-life

Packaging:
1 kg, 2.5 kg and 10 kg tin containers

Application rate:
Depending on application between 0.2 - 0.85 kg/m²

Shelf-life:
At least 9 months in unopened and unmixed, original containers stored cool but frost-free.

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Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet and the brochure "Epoxy Resins in the Construction Industry and the Environment" issued by Deutsche Bauchemie e.V. (2nd edition, as per 2009).

GISCODE: RA 01

Chem VOC Paint V (2004/42/EC):

Group (LB): j
Stage 2 (2010): max. 500 g/l
Stage 1 (2007): max. 550 g/l
This product contains < 500 g/l

Emergency information:
Mon.-Thurs. from 7:30 a.m. to 4:00 p.m.; Friday from 7:30 a.m. to 2:00 p.m.
Product Safety Department:
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