

TI 262

Technical Information Surface Protection Linings
Issue 18.03.2020

OXYDUR BL AR

Top Coat with good abrasion resistance

Base

Vinyl ester resin

Material Group

Floor- / wall coatings - Trowel applied systems

Description

The system is a chemically and thermally highly resistant Top Coat for OXYDUR or STEULERFLAKE systems based on vinyl ester resin which hardens well even under unfavourable conditions. OXYDUR BL-AR has an outstanding wear resistance.

Use

Use as a top layer in highly abrasive areas of REA absorbers or other components of various industries.

Properties

- good chemical and mechanical resistance
- Wear resistant

Physical Data

Property (unit), Test method	Value
Density [g/cm ³], DIN EN ISO 1183-1, ASTM D 792	2.2
Abrasion resistance [mg/1000 turns] ASTM D 4060, Taber Disc CS 17	70
Compressive strength [MPa], DIN EN ISO 604, ASTM C 579	100
Barcol hardness, DIN EN 59	40
Lowest working temperature [°C]	10
Maximum working temperature [C]	30
Temperature resistance [°C]	140
Data are mean values	

Chemical Resistance

For detailed information about the chemical resistance please refer to Technical Information TI 210B.

Please refer to the column **VS**.

Substrate

Vinyl ester resin based OXYDUR and STEULERFLAKE-systems. The surface must be clean, dry and free of separating substances for the application.

The possible applications must be coordinated with our application technology for each specific project.

Moisture

During application, the substrate must be kept absolutely dry. No moisture (condensate, mist, etc.) must get onto the material. Distance to dew point has to be at least 3 K, at a relative humidity of above 70 % at least 5 K.

Packaging / Shelf life

All components must be stored and transported dry and frost-free. The minimum storage life applies to a storage temperature of 20 °C, unless otherwise specified. Higher temperatures reduce, lower temperatures increase the shelf life.

Components	Item number	Package	Content	Shelf life
Oxydur-Accelerator D	5032007023	Jug	2.5 kg	24 Months
Oxydur-VE-AR-Powder	5011114001	Bag	25 kg	24 Months
Diluent M	5060006006	Can	10 kg	12 Months
Oxydur-Hardener E	5032016007	Bottle	1 kg	12 Months
Oxydur-BL-AR-Solution	5032175001	Hobbock	25 kg	9 Months

For handling, transport and storage observe the relevant material safety data sheets.

Mixing Ratio / Consumption

Oxydur BL-AR

Consumption: approx. 2.200 kg/m²; Work steps 1; Layer thickness: 1 mm

Component	kg/m ²	Part by weight	kg / batch	l / batch
Oxydur-BL-AR-Solution	0.588	5.000	5.000	4.980
Oxydur Accelerator D	0.012	0.100	0.100	0.100
Oxydur-Hardener E	0.012	0.100	0.100	0.100
Oxydur-VE-AR-Powder	1.588	13.500	13.500	7.500
Total	2.200		18.700	
			1 batch is sufficient for 8.5 m ²	

Pot Life

Pot life depends on temperature:

20 °C	approx. 30 - 60 minutes
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Waiting and curing times

The minimum waiting time until further processing and the maximum waiting time between operations are as follows (approx.):

Temperature	Walkable after	Maximum waiting time
10 °C	8 h	144 h
20 °C	6 h	96 h
30 °C	4 h	48 h

The finished coating is fully mechanically and chemically resistant at 20 °C after 7 days.

Safety and Disposal

- sufficient aeration and de-aeration (especially in tanks and pits)
- No smoking / no fire
- Refer to the Safety Data Sheets.
- Observe danger references and safety recommendation labels.
- Wear required personal protective equipment (avoid skin contact with materials).
- Clean and protect hands with skin protective soap and skin protection cream (no solvents).
- Wear a dust mask when sanding (e.g. for repairs).
- Instructions as per § 14 of GefahrstoffV (Toxic Substances Act) and TRGS 507 (Technical regulations for Hazardous Substances - Germany).
- Accident precautions issued by the Liability Insurance Association for the Chemical Industries (Germany).

Do not expose materials to heat or open flame, this applies in particular to welding works (weld beads).

Preferably consume residual quantities. Do not pour into a spout or dustbin! Collect separately for disposal in durable, lockable and labeled containers.

GISCODE

Product	GISCODE
Oxydur BL AR	SB-STY 20

Cleaning of Equipment

Tools soiled with uncured materials can be cleaned with STEULER UNIVERSAL CLEANER (Technical Information TI 190). Only clean in well ventilated areas.

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This issue replaces all previous versions.