Technical Datasheet

TOPCOAT-PAS 760

Fast-curing, UV-stable, polyaspartic topcoat

Description

TOPCOAT-PAS 760 is a two-component, pigmented, fast-curing, aliphatic, polyaspartic topcoat (cold polyurea). It is solvent-free and low-VOC. It offers the following advantages:

- Superior mechanical resistance.
- Elasticity.
- Excellent UV stability.
- High abrasion resistance.
- Excellent resistance to a wide range of chemicals.
- High resistance to pedestrian and vehicle traffic.

Certified according to EN 1504-2 and classified as a coating for surface protection of concrete. Certificate No.: 2032-CPR-10.11.
Also certified according to EN 13813 and classified as a SR-B2,0-AR0,5-IR11 type floor coating material. CE marked.

Fields of application

TOPCOAT-PAS 760 is intended for use as a topcoat over:

- exposed PU waterproofing layers on flat roofs, balconies, patios, walkways and car park decks, especially where resistance to mechanical loads is required
- exposed epoxy systems
- exposed polyurea systems

TOPCOAT-PAS 760 is also suitable to be used as a protective floor coating in industries, warehouses, garages, etc.
Also well-suited for interior or exterior decorative flake broadcast systems.

Technical data

1. Properties of the product in liquid form

Form:	two-component, polyaspartic resin
Colors:	grey (gloss)
Density (A+B):	1.38 kg/l
Viscosity:	2,060 mPa·sec (at +23°C)
Mixing ratio (A:B):	64:36 by weight

Pot life

(10°C)	~ 40 minutes
(23°C)	~ 30 minutes
(30°C)	~ 25 minutes

2. Properties of the cured coating

Tensile strength: (EN ISO 527)	15.50 N/mm^2
Elongation at break: (EN ISO 527)	> 130%
SHORE D hardness:	64
Adhesion: (EN 1542)	3.0 N/mm^2 (concrete failure)
Abrasion resistance: (ASTM D 4060, TABER TEST, 7 days, CS 17/1000/1000)	69 mg
Abrasion resistance (EN 13892-4 (BCA))	AR 0.5
Impact resistance (EN ISO 6272):	11.4 Nm

Curing times (at 23°C)

Foot traffic:	5 hours
Light traffic:	11 hours
Full cure:	4 days

Directions for use

1. Substrate preparation
The substrate must be dry, clean, free of grease, loose particles, dust, etc.

2. Mixing
Components A (resin) and B (hardener) are packaged in two separate containers, at the correct predetermined mixing ratio by weight. The entire contents of component B is added to component A. The two components should be mixed for about 2-3 minutes using a low speed mixer (300 rpm). It is important to thoroughly stir the mixture near the sides and bottom of the container, to achieve uniform dispersion of the hardener. It is advised to let it rest for a few minutes after mixing, in order to help entrapped air escape.

TOPCOAT-PAS 760

APPLICATION

1. As a topcoat over polyurethane liquid waterproofing membranes or polyurea system

The substrate must be completely dry, clean, free of grease, loose particles, dust, etc. Existing polyurethane or polyurea waterproofing coatings do not require priming.
TOPCOAT-PAS 760 is poured onto the prepared area, applied with a squeegee and uniformly backrolled by use of a short or medium pile roller.
If a second layer is required, it can be applied 4-5 hours (at 23°C) after the first one.
Lower temperatures will prolong recoat time.
Consumption: 250-400 g/m^2 per layer, depending of the substrate.

2. As a protective coating over industrial floorings

Concrete surfaces
The substrate must be completely dry, clean, free of grease, loose particles, dust, etc.
Concrete surfaces must be primed with the epoxy primer DUROFLOOR-PSF, with a consumption of approximately 200 g/m^2. TOPCOAT-PAS 760 should be applied within the next 24 hours.
Alternatively, the two-component polyurethane primer PRIMER-PU 140 could be used, with a consumption of 100-250 g/m^2. TOPCOAT-PAS 760 should be applied approximately 4 hours after the application of PRIMER-PU 140.
TOPCOAT-PAS 760 is poured onto the prepared area, applied with a squeegee and uniformly backrolled by use of a short or medium pile roller.
If a second layer is required, it can be applied 4-5 hours (at 23°C) after the first one.
Lower temperatures will prolong recoat time.
Consumption: 300-400 g/m^2 per layer, depending of the substrate.

3. As a binder for decorative flake broadcast system

Concrete surfaces
The substrate must be completely dry, clean, free of grease, loose particles, dust, etc.
Concrete surfaces must be primed with the epoxy primer DUROFLOOR-PSF, with a consumption of approximately 200 g/m^2. TOPCOAT-PAS 760 should be applied within the next 24 hours.
Alternatively, the two-component polyurethane primer PRIMER-PU 140 could be used, with a consumption of 100-250 g/m^2. TOPCOAT-PAS 760 should be applied approximately 4 hours after the application of PRIMER-PU 140.

Step 1: Broadcast application

TOPCOAT-PAS 760 is poured onto the prepared area, applied with a squeegee and uniformly backrolled by use of a short or medium pile roller.
Consumption: 300-350 g/m^2 per layer, depending of the substrate.
Broadcast preblended decorative flakes. Allow broadcast system to cure sufficiently to be able to withstand foot traffic without damaging the surface. Remove excess flakes from the surface. Removal of excess flakes is carried out by sweeping, followed by vacuuming, until surface is free of all loose particles and dust.

Step 2: Transparent topcoat with TOPCOAT-PAS 780

TOPCOAT-PAS 780 is poured onto the prepared area (broadcast with flakes), applied with a squeegee and uniformly backrolled by use of a short or medium pile roller.
If a second layer is required, it can be applied 4-5 hours (at 23°C) after the first one.
Lower temperatures will prolong recoat time.
Consumption: 300-400 g/m^2 per layer, depending of the substrate.

Tools should be cleaned with SM-28 while TOPCOAT-PAS 780 and TOPCOAT-PAS 760 are still fresh.

TOPCOAT-PAS 760

Packaging

7 kg and 25 kg containers.

Storage

12 months from production date if stored in original, sealed packaging, in dry and frost-free conditions, away from direct sunlight.
Recommended storage temperature: between +5°C and +35°C.
It is advised to store component B tightly sealed in its original packaging, because in the event of contact with ambient moisture, it will harden.

Remarks

- Polyaspartic layers should be protected from moisture for 4-6 hours after application. Moisture may whiten the surface or/and make it sticky. It may also disturb hardening. Faded or sticky layers in parts of the surface should be removed by grinding or milling and laid again.
- In case recoat time is longer than expected or old floors are to be overlaid again, the surface should be thoroughly cleaned and ground before applying the new layer.
- The maximum recoat window to apply an additional layer is 48 hours.
- Temperature during application and hardening of the product should be between +8°C and +35°C.
- The substrate moisture content must be below 4% and the ambient moisture below 65%.
- The workability of polyaspartic materials is affected by temperature. The ideal temperature of application is between +15°C and +25°C, for which the product obtains optimal workability and curing time. Room temperature below +15°C will extend the curing time, while temperatures above +30°C will reduce it. It is recommended to mildly preheat the product in the winter, and store the product in a cool room before application in the summer.
- Bonding between successive layers may be severely affected by moisture or dirt present between them.
- TOPCOAT-PAS 760 is intended for professional use only.

Volatile Organic Compounds (VOCs)

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory j, type WB is 140 g/l (2010) for the ready-to-use product.
The ready-to-use product TOPCOAT-PAS 760 contains a maximum of 140 g/l VOC.

TOPCOAT-PAS 760

CE

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EN 13813 SR-B2,0-AR0,5-IR11

Synthetic Resin screed material for use internally in buildings

DoP No.: TOPCOAT-PAS 760 / 1871-01

Reaction to fire: F

Release of corrosive substances: SR

Water permeability: NPD

Wear resistance: AR0,5

Adhesion: B2,0

Impact resistance: IR11

Sound insulation: NPD

Sound absorption: NPD

Thermal resistance: NPD

Chemical resistance: NPD

CE

2032

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2032-CPR-10.11

DoP No.: TOPCOAT-PAS 760 / 1871-01

EN 1504-2

Surface protection products

Coating

Permeability to CO_2: Sd > 50m

Water vapor permeability: Class I (permeable)

Capillary absorption: w < 0.1 kg/m^2·h$^{0.5}$

Adhesion: ≥ 0.8 N/mm^2

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

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