

BLENDA[®]-SOL

Art. 513 / 3 / 0223

PU floor paint

VFL
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Properties

BLENDA[®]-SOL is a water-dilutable and low-odour methyl acrylic polyurethane floor paint. The result is abrasion-resistant, elastic and non-yellowing coatings. The coating has a good resistance to water, detergents and cleaning agents, etc. BLENDA[®]-SOL is only conditionally suitable in contact with organic solvents, petrol, diluted acids and alkalis. For such uses we recommend to use BLENDA[®]-POX 512. For increased demands and for outdoor applications, BLENDA[®]-SOL is cross-linked with a special hardener, which further improves the mechanical and chemical resistance.

Field of application

As a permanent coating on concrete, masonry, composite panels (such as coarse particleboard OSB), cement coatings in basements, laundry rooms, heating and hobby rooms, stairs, terraces, balcony floors as well as for coating heavily used walls.

Pretreatment

For new floors, the drying and setting times must be observed according to the floor manufacturer's instructions. The substrate must be freed from all adhesion-reducing layers and impurities. For example, cement residue, sintered layers, liquid foils (curing), etc. must be completely removed by blasting, grinding (with NEUTRASOL cement floor cleaner) or other suitable means. Clean old coatings with GEIGER SE-1 leachers / PUROL active cleaner concentrate, rinse with clean water and allow to dry well. Remove poorly adhering old coats (adhesive tension test, cross-cut) mechanically.

Processing

During application, a minimum substrate temperature of 10 °C, a maximum floor moisture of 5 % and a maximum air humidity of 75 % must be observed, otherwise film formation may be disturbed, resulting in poor drying, reduced adhesion, lower gloss, poor flow or poorer resistance. The adhesion of the coatings is also excellent on slightly damp substrates.

If BLENDA[®]-SOL is used with the hardener additive, the hardener is to be added to the base coat while stirring carefully. Afterwards, it is recommended to add the same amount of hardener to the varnish again in order to achieve an optimal flow. Due to the relatively short pot life, processing of the mixed material should be started immediately.

System structure

1 x BLENDA[®]-SOL PU floor paint diluted with 10–20 % water
or with BLENDA[®]-XIM floor impregnation primer colourless

1–2 x BLENDA[®]-SOL PU floor paint diluted with 0–10 % water

1 x BLENDA[®]-FIS or BLENDA[®]-FLOR Sealing (optional)
(recommended for exterior coatings and colour shades)

Drying

- ◆ Dust dry after about 30 minutes
- ◆ Can be reworked after approx. 6 hours
- ◆ Walkable after approx. 24 hours
- ◆ Fully cured after approx. 7 days
(depending on the temperature, application quantity and humidity)

Dilution

Water.



Extensiveness	5–6 m ² per kg per application, depending on the quantity applied and the condition of the substrate.
Mixing ratio	For surfaces subject to heavy wear and tear as well as in outdoor and humid areas, we recommend the addition of hardener type 1620 with a mixing ratio of 10 : 1.
Pot life	Depending on the temperature, the processing time is between 30 minutes and 2 hours. Mixed material that becomes musty in the processing phase may no longer be used. Mixed residual inks must never be stored in a closed container until they have completely hardened. The product continues to react and will put the container under pressure and may cause it to burst.
Application	Brush, roller or spray gun. In order to achieve optimum results, it is very important to use the right tools – see KNUCHEL GUIDE on brush and roller qualities. You will find this guide both in the catalogue and on the homepage as an attachment to this product.
Cleaning	Clean tools with warm water immediately after use. Dried-in residues can only be removed with cleaning thinner or brush cleaner.
Delivery form	Standard colours in packages of 20 and 6 kg as well as 750ml. Colour shades in the COLORAMA-Mix tinting system in packages of 15, 5 and 2,5 litres as well as 1000ml.
Shelf life	Components A: BLENDA [®] -SOL can be stored for up to 12 months in unopened original containers. Store in a cool but frost-free place. Diluted material reduces the shelf life, depending on the degree of dilution and water quality. Components B: The hardener can be stored for at least 12 months in well-sealed original containers. Store in a cool but frost-free place.
Viscosity	2340–2860 mPa.s (depending on colour)
Density	1,30 ± 0,05 g/cm ³ (average value, depending on the colour tone)
Solid content	50 ± 1 % (average value, depending on the colour tone)
Binder base	Components A: Acrylic and polyurethane resin dispersion Components B: Aliphatic isocyanate (article 965 / type 1620)
Gloss level	Silk matt 10 % ± 2 at 60° angle
Colours	201 light grey / 202 medium grey / 204 green / 209 ochre The entire range of colours (Knuchel-Inspiration, RAL, Colortrend-E, NCS etc.) is available under the COLORAMA tinting system BLENDA-MIX.
Test results	BLENDA [®] -SOL PU floor paint <ul style="list-style-type: none">• BLENDA[®]-SOL achieves very good adhesion in the proposed system build-up: cross-cut 0–1 (according to DIN EN ISO 2409).• Adhesive tensile strength according to DIN EN 1504-2: ≥ 1,5 N/mm².• Abrasion resistance (test according to BCA): AR 1 BLENDA [®] -SOL PU floor paint with Hardener <ul style="list-style-type: none">• BLENDA[®]-SOL achieves very good adhesion in the proposed system build-up: cross-cut 0–1 (according to DIN EN ISO 2409).• Adhesive tensile strength according to DIN EN 1504-2: ≥ 1,5 N/mm².• Abrasion resistance (test according to BCA): AR 1

Registration	Components A: CPID 277363 Components B: CPID 277924 (article 965 / type 1620)
Classification	For information on chemical properties and hazards as well as regulations regarding transport, processing, storage, disposal, etc., please refer to the safety data sheet.
Trademark	BLENDA [®] is a registered trademark of Knuchel Farben AG in CH-Wiedlisbach.
Note	<p>This leaflet is only intended as a reference and non-binding advice. The processing must be adapted to the corresponding conditions. In special cases we recommend to contact our technical service. However, all data and information on the suitability and application of the delivered products do not exempt the processor from carrying out his own tests and trials. A claim for damages for omitted, incomplete or incorrect information is excluded. This applies in particular if hardeners and other products are used in the paint build-up system.</p> <p>Furthermore, we refer to our General Terms and Conditions (GTC) on our homepage.</p>