

## Extra Hardener

Prepolymer component for making DevoNatural High Solid Oil harden faster and more stain resistant. DevoNatural High Solid Oil + Extra Hardener is already 100% dry after only 12 hours!



**Applications:** When added to DevoNatural High Solid Oil, DevoNatural Extra Hardener triggers the oxidative drying process and makes the product dry more fully and rapidly. Wooden floors treated with DevoNatural High Solid Oil + Extra Hardener can usually be used and walked on after only 12 hours. This makes this combination extremely suitable for finishing wooden floors in construction projects, public buildings, hotels/restaurants, function rooms, industrial finishing companies, etc., especially if an oil is needed that is suitable for heavy use.

- Fully dry and can be walked on after 12 hours;
- Increased wear resistance;
- Increased stain resistance;
- Increased chemical resistance, in compliance with DIN68861;
- Can be applied indoors and outdoors;
- Highly moisture resistant;
- Seamless application and finish.

**Special properties:** The active substances in DevoNatural Extra Hardener have special properties based on DCC technology (Dual Cure Chemistry). DevoNatural Extra Hardener produces a chemical reaction with reactive groups found in DevoNatural High Solid Oil, which causes it to harden by means of an oxidative and chemical/hygroreactive process. When modified using Extra Hardener, DevoNatural High Solid Oil has the powerful properties of a bi-component oil, but maintains the positive properties of a physically hardening single component oil!

## Instructions

**Surface preparation:** The surface must be sanded, clean, dry and free of dust and grease.

**Product preparation:** Shake well and stir DevoNatural High Solid Oil before use. Add 5 - 10% DevoNatural Extra Hardener and stir. Continue to stir for at least one minute until you obtain an even consistency.

**Application:** Please refer to the instructions for DevoNatural High Solid Oil.

**Drying time:** Dust dry after 6 hours at 22 °C and 60 % HR.

**Finish coat:** See instructions for DevoNatural High Solid Oil.

**Pot life:** After stirring into the DevoNatural High Solid Oil, the mixture can be applied for 5 hours.

**Dry enough to walk on:** After 8 - 12 hours.

**Full curing time:** 4 days. Do not cover and avoid any contact with water during the hardening period.

**Working temperature:** 10 - 25 °C.

**Consumption:** 50 - 100ml DevoNatural Extra Hardener per litre of DevoNatural High Solid Oil.

**When mixed with DevoNatural High Solid Oil, the product may spontaneously combust! Allow any pads and cloths used to dry in the open air or immerse them in water, in order to prevent spontaneous combustion!**

**Clean tools:** Using DevoNatural High Solid Oil Diluent.

**Maintenance:** See instructions for DevoNatural High Solid Oil.

**Shelf life:** 2 years if kept in properly sealed packaging .

**Disposal:** Dispose of any left-over product and empty packaging, in compliance with the applicable local regulations.

(On packaging: See the instructions on the bottom of this packaging.)

# Extra Hardener

## Technical properties

<b>Description (type):</b>	Prepolymer-based component for faster hardening <u>DevoNatural High Solid Oil</u> .
<b>Base:</b>	Prepolymer, isocyanate.
<b>Characteristic properties:</b>	Makes DevoNatural High Solid Oil dry more fully and rapidly, so that it is 100% dry after 12 hours.
<b>Application:</b>	
Surface:	See instructions for DevoNatural High Solid Oil.
Material temperature:	10 – 25 °C
Air humidity:	40 – 70%.
Material moisture content:	See instructions for DevoNatural High Solid Oil.
Product preparation:	Shake well and stir DevoNatural High Solid Oil before use. Add 10% DevoNatural Extra Hardener while stirring. Continue to stir for at least one 1 minute until you obtain an even consistency.
Pot life:	5 hours
Application:	See instructions for DevoNatural High Solid Oil
Diluent/Cleaning liquid:	Clean tools using DevoNatural High Solid Oil Diluent
Consumption/covering power:	See instructions for DevoNatural High Solid Oil
Coat thickness:	See instructions for DevoNatural High Solid Oil
Finish coat:	Approx. 8 hours
<b>Physical and chemical properties:</b>	
Colour(s):	Transparent
Odour:	Characteristic
Consistency:	Liquid
Dynamic or kinematic viscosity at 20 °C:	25 s (ISO 6mm)
Specific weight 20 °C/density:	1.013 g/cm <sup>3</sup> - method: DIN 53217
Solids by weight:	58.5%
VOC content:	40.03%
Drying at 20 °C/65% HR:	6 hours at 22 °C and 60 % HR. <b>Avoid all contact with water for the first 2 weeks after applying DevoNatural High Solid Oil.</b>
Fully dry after:	4 days. Do not cover during the hardening period!
Gloss (H. 60 °):	See instructions for DevoNatural High Solid Oil.
pH at 20 °C:	
Water soluble at 20 °C:	No
Vapour pressure/20 °C, mBar:	Not applicable
Flash point:	> 30 °C
Spontaneous combustion:	<b>Yes, if mixed with DevoNatural High Solid Oil the product may ignite if exposed to flame or spark. Allow any pads and cloths used to dry in the open air or immerse them in water, in order to prevent spontaneous combustion!</b>
Shear strength:	Not applicable
Shelf life:	2 years if kept in sealed original packaging
<b>Safety:</b>	
	<p><b>Contains:</b> isocyanates. May produce an allergic reaction. Hexamethylene-1,6-diisocyanate homopolymer xylene Solvent naphtha (petroleum), light arom. 2-dimethylaminoethanol. <b>Warning:</b> Flammable liquid and vapour. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical / ventilating / lighting equipment. <b>IF ON SKIN (or hair):</b> Take off immediately all contaminated clothing. Rinse skin with water / shower. <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents / container in accordance with local / regional / national / international regulations. Safety data sheet available on request.</p>
UN1263	
<b>Environmental information:</b>	
Bio-degradable:	No
Disposal:	Any left-over product should be handled as chemical waste and properly disposed of, in compliance with local regulations.
<b>Delivery/Transport:</b>	
Available packaging(s):	100 ml and 500 ml