

Knowledge in action

# Polyurethane

Product catalog Germany



NORDMANN

On pages 2-5 you will find the products listed according to their applications. From pages 7-10, they are listed by function.

	Brand	Supplier	Flexible slabstock	Flexible molded	Rigid foam	Microcellular foam	PU elastomers	PU coatings	PU adhesives / sealants
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## PU Systems

Hot cast systems									
Cold cast systems									
Ribbon flow systems									

## Aromatic Isocyanates

Monomeric & polymeric MDI	Ongronat®	Borsodchem							
NDI		Nordmann							
TDI	Ongronat®	Borsodchem							

## Prepolymers

MDI prepolymers									
TDI prepolymers									
Aliphatic prepolymers									

① see note on § 15a Chemicals Act



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## Polyols

PO/EO polyether polyols	Caradol™	Shell							
Saturated polyester polyols	Elapol®	Elachem							
CO <sub>2</sub> PPC polyols	Converge®	Aramco							
Polycaprolactone polyester polyols	CAPA®	Ingevity							
PTMEG	NORPUR PTMEG	Nordmann							
Alkoxylated polyalcohols	Polyol	Perstorp							
Dentritic polymer polyols	Boltorn™	Perstorp							
Necowel	Polyol	ASK							

## Crosslinkers

MCDEA	Curative 400	Nordmann							
DETD / DMTDA	Ethacure®	Albemarle							
HQEE	NORCURE HQEE	Nordmann							
TMP	Evyron®	Perstorp							
1,4 BDO	NORCURE BDO	Nordmann							

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## Additives

Metal catalysts	REAXIS®	Reaxis							
Amine catalysts	NIAX™	Momentive							
Silicone stabilizers	NIAX®	Momentive							
Color pastes	Moltoprene®, Isopur	ISL-Chemie							
Titanium Dioxide	HOMBITAN® HOMBITEC® SACHTLEBEN® TIOXIDE®	Venator							
Organic Pigments and Dyes	Sudafast, Sudacolor, Sudaperm	Sudarshan							
Pigment carbon black	Norblack	Nordmann							
Effect pigments	Various	Honeywell							
Carbon fibers		Donacarbo							
Ultra-high molecular polyethylene powder (UHMW-PE)		Inhance							
Pyrogenic silica	HDK®	Wacker Chemie AG							

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## Flame retardants

### Phosphorous compounds

Resorcinol bis(diphenyl phosphate)	NORD-MIN	Nordmann	Dark Blue	Light Blue	Medium Blue	Light Blue	Light Blue	Dark Blue	Medium Blue
Bisphenol A bis(diphenyl phosphate)	NORD-MIN	Nordmann	Light Blue	Light Blue	Medium Blue	Light Blue	Light Blue	Dark Blue	Medium Blue

### Nitrogen compounds

Melamine	NORD-MIN	Nordmann	Dark Blue	Light Blue	Medium Blue	Medium Blue	Light Blue	Light Blue	Light Blue
Melamine cyanurate	NORD-MIN	Nordmann	Light Blue	Light Blue	Light Blue	Light Blue	Medium Blue	Light Blue	Light Blue
NORD-MIN® DDA range	NORD-MIN	Nordmann	Dark Blue	Light Blue	Medium Blue	Medium Blue	Light Blue	Light Blue	Light Blue
SACOfam® 31107		Metadynea	Dark Blue	Light Blue	Medium Blue	Medium Blue	Light Blue	Light Blue	Light Blue

### Phosphorus/ Nitrogen Compounds

Ammonium polyphosphate	NORD-MIN	Nordmann	Dark Blue	Light Blue	Medium Blue	Medium Blue	Light Blue	Light Blue	Light Blue
Expandable graphites	NORD-MIN	Nordmann	Dark Blue	Light Blue	Medium Blue	Medium Blue	Light Blue	Light Blue	Light Blue
Antimony compounds	Nyacol	Nyacol	Dark Blue	Dark Blue	Medium Blue	Medium Blue	Light Blue	Dark Blue	Medium Blue

## Processing aids

Release agent	NIX-STIX	Stoner	Light Blue	Dark Blue	Medium Blue	Medium Blue	Light Blue	Light Blue	Light Blue
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# Castable polyurethane systems & prepolymers

## Hot cast systems

Hot cast systems	Based on TDI/polyether polyol Based on TDI/polyester polyol
	Light and temperature-resistant two-component systems based on aliphatic isocyanates
	Based on TDI/polyether polyol Based on TDI/polyester polyol

## Cold cast systems

Cold cast systems	Based on MDI/polyether polyol Based on MDI/polyester polyol
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## Ribbon flow systems

Ribbon flow systems	Polyether and polyester-based systems for ribbon flow applications
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# Aromatic isocyanates

NDI	Naphtalene-1.5-diisocyanate	①
ONGRONAT®	MDI (monomeric and polymeric methylenediphenyl diisocyanate)	①
ONGRONAT®	TDI (Toluene diisocyanate)	

① see note on § 15a Chemicals Act

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# Polyols

Alkoxylated polyalcohols	Di- and higher-functional polyols based on TMP, BEPD and PENTA
BOLTORN™	Dendritic polymer polyol
CARADOL™	PO/EO-based polyether polyols, di-, tri-, and higher-functional, molecular weights from 450-6000 g/mol <i>Individual filling in drums and IBCs optional</i>
CAPA®	Polycaprolactone polyester polyols, difunctional and higher-functional
CONVERGE®	CO <sub>2</sub> -based polypropylene carbonate polyols (PPC)
ELAPOL®	Saturated polyester polyols for CASE and foam applications
NECOWEL	Alkyd emulsions
NORPUR PTMEG	Difunctional C4 polyether polyols (PTMEG)

# Crosslinkers

NORCURE BDO	1,4-Butanediol
CURATIVE 400 (MCDEA)	4,4-Methylene-bis-(3-chloro-2,6-diethylaniline) ①
ETHACURE® 100 (DETA)	Diethyltoluenediamine
ETHACURE® 300 (DMTDA)	3,5-dimethylthio-2,4-toluenediamine and 3,5-dimethylthio-2,6-toluenediamine. ①
ETHACURE® 420	N,N-bis[ <i>o</i> -c-butylamine diphenylmethane]
NORCURE HQEE	Hydroquinone bis(2-hydroxyethyl) ether
TMP / Evyron®	Trimethylolpropane ①

① see note on § 15a Chemicals Act





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## Additives

DONACARBO	Chopped and milled carbon fibres for antistatic applications
Effect Pigments	Organic and inorganic fluorescence and afterglow pigments for safety applications
HDK®	Pyrogenic silica for liquid systems and as a free-flow additive in PU powder coatings
HOMBITAN®, HOMBITEC®, SACHTLEBEN®, TIOXIDE®	Titanium dioxide Rutile, sulphate and chloride
INHANCE™	Ultra-high molecular polyethylene powder (UHMW-PE), surface activated with particle sizes between 38 and 250 microns. Improves the dynamic properties, abrasion behavior and friction of PU elastomers and coatings.
ISOPUR, MOLTOPREN®	Polyol (polyether & polyester) based color pastes
MOLTOPREN® S	Reactive polyol (polyether & polyester) based color pastes
NIAX™	Amine-based catalysts
NIAX®	Silicone stabilizers for rigid and flexible foam
NORBLACK	Pigment carbon black for lacquers, paints and printing inks
REAXIS®	Metal catalysts based on tin, zinc and bismuth <sup>①</sup>
Rheology additives	Effective flow control and anti-settling agents
Sudafast, Sudacolor, Sudaperm	Organic Pigments and Dyes

## Flame retardants, fire protection additives & synergists

Halogen-containing and halogen-free additives

Flame retardant masterbatches / synergistic additives / nanoclays / nanoclay masterbatches

For further information, please request our special product catalog of flame retardants, fire protection additives and synergists.

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# Processing Aids

NIX-STIX™

Release agent based on silicone and waxes, solvent-free





# Nordmann Portfolio

Agrochemicals  
Adhesives & Sealants  
Ceramics  
Cleaning  
Coatings & Inks  
Composites  
Construction  
Elastomers  
Electronics  
Fine Chemicals  
Flame Retardants  
Food & Feed  
Foundry  
Health Care  
Industrial Chemicals  
Monomers  
Oil, Gas & Lubricants  
Oleochemicals  
Polyurethane  
Optical  
Paper  
Personal Care  
Plastics  
Textiles & Leather

All the information and application knowledge presented here is based on practical experience and research. However, it is non-binding information. We therefore strongly recommend that you carry out your own tests before using our products. This applies in particular to our formulations, which only represent a starting point for individual developments and for which we can provide no guarantee.

The user alone is responsible for testing in the respective countries concerned and with regard to possible conflicting industrial property rights of third parties (e.g. patents). In this respect, we assume no liability for formulations or partial recipes. Our products are sold according to our General Conditions of Sale.



*Advertising for dangerous substances*

*Dangerous substance as per Regulation (EC) No 1272/2008. This substance is classified and assigned in accordance with the requirements of the aforementioned ordinance. For further information on this substance, please refer to the safety data sheet.*

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Serbia  
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Spain  
Switzerland  
Turkey  
United Kingdom

## North America

USA, Florida



## Asia

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India  
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Singapore  
South Korea

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