



# Polyols for flexible, rigid, CASE and OCF applications

## PCC ROKITA and PCC PU

PCC Rokita S.A. and PCC PU Sp. z o.o. are part of the PCC Group. Their core business is the production of polyether polyols with the brand name Rokopol (PCC Rokita) and polyester polyols with the brand name Rokester (PCC PU).

For over forty years of polyols production, the companies have always been striving to improve the quality of their products. By increasing their production capacity, expanding the portfolio of products and developing technical consultancy, PCC Rokita and PCC PU aim to meet the growing requirements of their customers from the dynamically developing polyurethanes sector. We offer a wide range of polyols for the production of flexible foams for furniture, mattresses and automotive industries, rigid foams for construction and appliance manufacturing industries as well as polyols for CASE applications (Coatings, Adhesives, Sealants and Elastomers) and One Component Foams (OCF).



## Rokopol® vTec

**Our tailor-made Rokopol® vTec polyols are used to offer superior long-lasting memory foams featured by:**

- Viscoelastic properties over a wide temperature range
- Extremely high air permeability
- Comfort also at low temperatures
- Broad density and hardness range

By choosing the appropriate Rokopol® vTec polyols, you can get TDI or/and MDI to produce pneumatic or air permeable viscoelastic foams. By using Rokopol® vTec 8888 it is possible to obtain open cell VE TDI foam with conventional silicone. Both types of TDI and MDI foams possess a very fine cell structure and a nice silky touch. Rokopol® vTec polyols make it possible to produce memory foams with a wide glass transition temperature range.

## Polyols for Viscoelastic foams

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokopol® vTec 8888	120-140	300-600	Innovative, versatile visco polyol which works with TDI or MDI. Open cell foam based on conventional silicone.
Rokopol® vTec 8887	165-175	300-600	All-purpose visco polyol for TDI or MDI, dedicated for emerging markets.
Rokopol® vTec 8886	135-155	200-500	Visco polyol design to work with green solutions as NOP or Repolyol. Suitable for TDI and MDI isocyanate.
Rokopol® vTec 8860	110-125	400-600	Polyol designed for the production of VE MDI foam.
Rokopol® vTec 8050	190-210	350-600	Polyol designed for the production of VE TDI foam. Hardness can be increased up to 6 kPa by adjusting the TDI index.
Rokopol® V700	225-250	220-270	General purpose viscoelastic polyol for a wide density range.

## Polyols for Hypersoft foams

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	STRUCTURE	MOLECULAR WEIGHT [g/mol]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokopol® M1170	31-36	triol, based on glycerine	5 000	1 250-1 550	High ethylene oxide content polyol, very effective cell opener and softening additive.
Rokopol® M1160	31-36	triol, based on glycerine	5 000	1 250-1 550	High ethylene oxide content polyol, cell opener designed for foams of lower densities.
Rokopol® M1145	35-39	triol, based on glycerine	4 500	950-1 300	High ethylene oxide content cell opener polyol with 4500 MW.
Rokopol® M1140	39-43	triol, based on glycerine	4 000	850-1 050	High ethylene oxide content cell opener polyol with 4000 MW.
Rokopol® M1130	39-43	triol, based on glycerine	4 200	850-1 050	High ethylene oxide content polyol, pH modified for prepolymer, soft & hypersoft foams.

## Polyols for conventional, technical and CME foams

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	STRUCTURE	MOLECULAR WEIGHT [g/mol]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokopol® F3000	53-59	polyether triol	3 000	460-520	Homopolymer polyol used for manufacturing automotive and CME foams.
Rokopol® F3600	45-50	polyether triol	3 600	540-620	Standard polyol for the production of conventional slabstock foam.
Rokopol® RF2000	160-170	polyol based on sorbitol	2 000	500-700	Crosslinker polyol used as a hardening additive in both conventional and HR foam production.
Rokopol® FS3610*	40-45	polymer polyol	–	650-900	SAN type non-reactive polymeric polyol used in the production of HLB foams.
Rokopol® FS3640*	25-30	polymer polyol	–	3 000-5 500	SAN type non-reactive polymeric polyol used in the production of HLB foams.

\* available in a wide range of solid content

# Polyols for High Resilience and Moulded foams

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	STRUCTURE	MOLECULAR WEIGHT [g/mol]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokopol® iPol H	49-56	reactive copolymer polyol	–	3 500-5 500	Designed for the production of high resilience (HR) and combustion modified high resilience (CMHR) flexible foams. This polymer polyol provides hardness without the use of styrene acrylonitrile (SAN), hence extremely low VOCs with significantly enhanced fire and flame retardancy. Rokopol® iPol H has 20% solid content and is used for the production of a very wide range of foam densities and levels of hardness.
Rokopol® MH2012	27-30	reactive polymer polyol	–	1 500-2 500	SAN type polyol with higher functionality and 12% solid content used for manufacturing HR slabstock foam.
Rokopol® MH2000	28-31	polyol based on sorbitol	12 000	1 200-1 700	High functionality polyol used for manufacturing HR and CMHR foam.
Rokopol® M5020	33-38	polyether triol	5 000	700-1 000	High performance 5000 MW polyol used for manufacturing HR, CMHR and moulded foam.
Rokopol® M6000	27-29	polyether triol	6 000	1 050-1 250	High performance 6000 MW polyol used for manufacturing HR, CMHR and moulded foam.
Rokopol® MS5225*	25-29	reactive polymer polyol	–	1 800-2 400	SAN type polyol with 25% solid content used for manufacturing HR slabstock foam.
Rokopol® MS5240*	20-23	reactive polymer polyol	–	700-900	SAN type polyol with 40% solid content used for manufacturing HR slabstock foam.
Rokopol® DE4020	27-31	reactive diol, based on glycol	4 000	700-900	Diol used as copolyol in the formulation for HR moulded foam.

\* available in a wide range of solid content



## Our innovative iPoltec® technology allows you to produce flexible HR foam with:

- Outstanding comfort and durability characteristics
- Exceptionally high resilience
- Very low emissions
- Advantageous flame retardant properties

Additionally, this technology offers high material efficiency, such as class leading block shape, excellent density and hardness distribution across the block profile as well as good green strength for easy fresh block handling. Furthermore, the use of either solid and/or liquid fire retardants, allows iPoltec® foams to meet the UK Fire Requirements with ease, even at low densities.

\* Polyols in iPoltec technology are available at wide range of solid content.

## Polyether polyols for One Component Foams (OCF)

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	MOLECULAR WEIGHT [g/mol]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokopol® G1000	155-165	1 000	200-300	Glycerine based triol, very often used as a main component in OCF systems. Low sodium and potassium content ensures a long shelf time.
Rokopol® D1002	108-116	1 000	130-170	Polyoxypropylene glycol, often used as an additive in OCF systems. It improves cellular structure and skin texture and also reduces the friability of the foam.
Rokopol® D2002	53-59	2 000	280-380	Polyoxypropylene glycol, used as one of the main components in OCF adhesive systems. It improves cellular structure and helps to reduce the friability of the foam.
Rokopol® G700	225-250	700	220-270	Glycerine based triol often used as an additive to improve dimensional stability and mechanical strength.
Rokopol® D450	230-270	450	60-80	Low viscosity diol with higher hydroxyl value used as an additive for the production of specialized OCF foams.
Rokopol® G441	330-360	500	250-310	High reactivity glycerine based triol. Due to its noticeable crosslinking properties it can be used as a component improving mechanical properties.
Rokopol® G500	290-310	560	240-340	Glycerine based triol. It can be used as a component improving mechanical properties.

## Polyester polyols for One Component Foams (OCF)

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokester® DP 1500.01	145-155	1 500-2 500	Specially designed aliphatic-aromatic polyester polyol. It provides high fire resistance and increased yield. Due to the low hydroxyl number, it is possible to increase its content in the formulation.
Rokester® 1600	150-170	1 000-3 000	Special aliphatic polyester polyol which helps in reducing PMDI consumption. In some formulations it improves the yield of the foam.
Rokester® 1711	185-195	2 500-3 500	Special aliphatic polyester polyol with very low reactivity. A very high loading level is possible.
Rokester® 2610	250-270	3 500-5 500	Modified aromatic polyester polyol for OCF with low reactivity. A high loading level is possible.
Rokester® 2600	250-270	2 500-4 500	Controlled reactivity aromatic based polyester polyol for OCF based on PET.
Rokester® 2700	250-270	2 500-5 000	Aromatic polyester polyol for OCF based on PA.
Rokester® 3110	300-330	2 000-3 000	Aromatic polyester polyol for summer OCF foams with a high hydroxyl number.

# Specially designed polyols for One Component Foams (OCF)

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	MOLECULAR WEIGHT [g/mol]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokopol® iCan 2432	145-160	900	150-250	Special polyether polyol for high performance OCF foams. Its main advantage is the improved foam yield. In addition, the foam is characterized by a noticeably finer and regular cellular structure. Polyol is intended for use as a base polyol.
Rokopol® iCan 4100	150-165	1 000	200-350	Specially designed polyether polyol intended for winter OCF foams with improved yield. The foam based on this polyol is characterized by reduced friability and tack free and cutting times. It can be used as a base polyol.
Rokopol® iCan 2770	150-170	1 000	200-350	Special polyether polyol dedicated as an additive for winter OCF foams. It noticeably reduces the tack free and cutting time. In selected formulations the yield is increased. Its content in the polyol blend is up to 50 wt%.
Rokopol® iCan 2672	150-170	700	50-150	Special polyether polyol for the production of one-component foam with a high content of chlorinated paraffin.
Rokopol® iCan 2850	225-250	700	180-280	Special polyether polyol for the production of one-component foam with a high content of chlorinated paraffin. It reduces the tack free and cutting time.
Rokopol® iCan 2812	105-115	1 500	200-550	Special polyether polyol for the production of one-component foam with increased elasticity. Its content in the polyol blend is up to 80 wt%.
Rokopol® iCan 2823	73-83	2 000	250-600	Special polyether polyol for the production of one-component foam with increased elasticity. Its content in the polyol blend is up to 50 wt%.



# Polyether polyols for rigid foam applications

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokopol® D450	230-270	60-80	Low viscosity PPG of molecular weight ca. 450 g/mol with a high hydroxyl value. Designed as an additive for the production of specialized OCF foams. General purpose additive for rigid foams and viscosity depressant.
Rokopol® D1002	108-116	130-170	Polyoxypropylene glycol of molecular weight ca. 1 000 g/mol often used as an additive in OCF systems. It can be used for improving the cellular structure and skin texture. It reduces the friability of the foam.
Rokopol® D2002	53-59	280-380	Polyoxypropylene glycol of molecular weight ca. 2 000 g/mol often used as an additive in OCF systems. It can be used for improving the cellular structure and skin texture. It reduces the friability of the foam.
Rokopol® G441	330-360	250-310	High reactivity glycerine based triol of molecular weight ca. 440 g/mol. Due to its noticeable cross linking properties it can be used as an additive to improve mechanical properties.
Rokopol® G500	290-310	240-340	Glycerine based triol of molecular weight ca. 560 g/mol. It can be used as a mechanical property enhancing additive.
Rokopol® G700	225-250	220-270	Glycerine based triol of molecular weight ca. 700 g/mol. It can be used as a dimensional stability and skin forming enhancing additive.
Rokopol® G1000	155-165	200-300	Glycerine based triol of molecular weight ca. 1000 g/mol. General purpose additive for rigid foams. Skin forming enhancing additive.
Rokopol® GS364	340-380	2 000-4 000	General purpose sucrose polyol for PUR rigid foams to be used, for example, in block foams, pipes insulation, sandwich panel continuous and discontinuous lines.
Rokopol® GS484	465-505	6 500-10 000	General purpose sucrose polyol for PUR rigid foams to be used, for example, in block foams, pipes insulation, sandwich panel continuous and discontinuous lines.
Rokopol® RF151	440-460	15 000-30 000	Reactive polyether polyol. Standard propoxylated Mannich base with high functionality and high viscosity. In PUR rigid foam formulations it decreases flame retardant and catalyst content and improves the reactivity and adhesion of spray foam.
Rokopol® RF151V	440-480	5 000-12 000	Reactive polyether polyol. Standard propoxylated Mannich base with high functionality. In PUR rigid foam formulations it decreases flame retardant and catalyst content and improves the reactivity and adhesion of spray foam.
Rokopol® RF152V	410-450	5 000-10 000	Reactive polyether polyol. Standard propoxylated Mannich base with high functionality. In PUR rigid foam formulations it decreases flame retardant and catalyst content and improves the reactivity and adhesion of spray foam.
Rokopol® RF170	500-520	300-500	Reactive aliphatic amine polyol for spray foams and 2k adhesive applications.
Rokopol® RF551	400-440	3 000-5 000	Sorbitol based polyether polyol, dedicated for PUR application. It gives good foam rise, dimensional stability and flowability.
Rokopol® T	400-480	600-2 500	Low viscosity, aromatic amine initiated polyether polyol. Designed for spray foam and other fast insulation PUR formulations. It improves the dimensional stability and thermal resistance of the foam.

## Polyester polyols for rigid foam applications

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokester® 2420	230-250	2 000-4 500	Basic, halogen free, aromatic polyester polyol for rigid faced lamination and spray foams.
Rokester® 3110	300-330	2 000-3 000	High hydroxyl value, halogen free polyester polyol for spray foams.
Rokester® 2416	225-245	2 500-4 500	Polyester polyol for PIR panels with excellent performance and low lambda values. Designed for rigid faced lamination. Good compatibility with n-pentane. It contains flame retardant.
Rokester® 2402.01	230-250	below 5 000	Halogen free polyester polyol for PIR panels with excellent performance and low lambda values. Designed for flexible faced lamination. Good compatibility with i-pentane and c/i-pentane.
Rokester® 2421	240-255	3 500-4 000	Polyester polyol for PIR panels. Halogen free with medium compatibility with n-pentane.
Rokester® DP 1950.03	180-200	4 000-5 500	Low OH number, polyester polyol for PIR panels with excellent performance and low lambda values. Designed for flexible faced lamination. Good compatibility with i-pentane and c/i-pentane.
Rokester® 7525GT	170-190	1 300-2 200	Formulated polyol for an easy transition from system use to self-formulation. Mainly dedicated for rigid faced lamination with good compatibility with n-pentane. It contains flame retardant.
Rokester® 2430	230-250	8 000-12 000	Halogen free, aromatic polyester polyol for block foams.

## PET Polyester polyols for rigid foam applications

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokester® 2600	250-270	2 500-4 500	Controlled reactivity, halogen free, recycled PET polyester polyol for OCF and PIR panels.
Rokester® 2610	250-270	3 500-5 500	Halogen free, recycled PET polyester polyol. A less reactive version of Rokester 2600. It contains secondary OH groups.
Rokester® 2620	240-260	2 500-4 500	Halogen free, recycled PET polyester polyol for spray foams and PIR panel applications. High content of recycled PET.
Rokester® 2650	240-260	8 000-12 000	Halogen free, high viscosity recycled PET polyester polyol for block foams.
Rokester® DP 2660.01	220-240	2 000-3 500	Recycled PET based polyester polyol for continuous PIR panel production. Good compatibility with pentanes. It contains flame retardant.
Rokester® DP 3133.01	280-320	2 000-4 500	High OH functionality, halogen free PET polyester polyol for spray foams.
Rokester® DP 3500.01	330-370	600-1 000	High hydroxyl number, halogen free, recycled PET polyester polyol for adhesive and spray foams with a very low viscosity.
Rokester® DP 3610.01	335-365	2 000-4 000	High OH functionality, halogen free PET polyester polyol for spray foams.

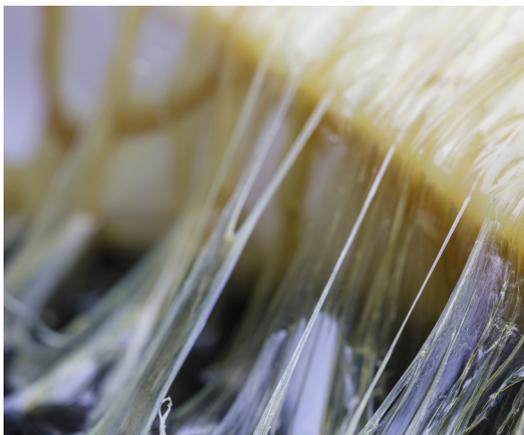
# Polyether polyols for CASE applications

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokopol® D450	230-270	60-80	Low viscosity PPG of molecular weight ca. 450 g/mol. Designed for 1K prepolymers and 2K systems.
Rokopol® D1002	108-116	130-170	Polyoxypropylene glycol of molecular weight ca. 1000 g/mol. It is designed as a component for prepolymer production. Not acidified.
Rokopol® D2002	53-59	280-380	Polyoxypropylene glycol of molecular weight ca. 2000 g/mol. It is designed as a main component for prepolymer production and 2K systems. Not acidified.
Rokopol® DE320	31-37	550-800	Reactive polyoxyalkylated polyether polyol of molecular weight ca. 3000 g/mol. It is designed for the production of prepolymers and other polyurethane plastics. Product characterized by its hydrophilic nature.
Rokopol® DE2020	53-59	280-400	Reactive polyoxyalkylated polyether polyol of molecular weight ca. 2000 g/mol. It is designed as an intermediate for the production of polyurethane prepolymers and 2K systems.
Rokopol® DE4020	27-31	700-900	High molecular weight reactive polyoxyalkylated polyether polyol of molecular weight ca. 4000 g/mol. It is designed as an intermediate for the production of polyurethane prepolymers.
Rokopol® F3000	53-59	460-520	Glycerine based polyoxyalkylene triol of molecular weight ca. 3000 g/mol. It is designed as a raw material for the production of polyurethane 2K elastomers, and 1K prepolymers.
Rokopol® F3600	45-50	540-620	Glycerine based copolymer block-statistic on ethylene oxide and propylene oxide triol of molecular weight ca. 3600 g/mol. It is designed as a raw material for the production of polyurethane 2K elastomers, and 1K prepolymers.
Rokopol® G500	290-310	240-340	Glycerine based polyoxyalkylene triol of molecular weight ca. 500 g/mol. It is designed as a raw material for the production of polyurethane 2K elastomers, and 1K prepolymers.
Rokopol® G700	225-250	220-270	Glycerine based polyoxyalkylene triol of molecular weight ca. 700 g/mol. It is designed as a raw material for the production of polyurethane 2K elastomers, and 1K prepolymers.
Rokopol® G1000	155-165	200-300	Glycerine based polyoxyalkylene triol of molecular weight ca. 1000 g/mol. It is designed as a raw material for the production of polyurethane 2K elastomers, and 1K prepolymers.
Rokopol® LDB Delta 4000	26-29	800-1 200	Low double bond polyoxpropylene diol of molecular weight ca. 4000 g/mol. It is designed for prepolymer synthesis.
Rokopol® LDB 6000D	17-19	1 400-2 300	Low double bond polyoxpropylene diol of molecular weight ca. 6000 g/mol. It is designed for prepolymer synthesis.
Rokopol® LDB 8000D	13-15	2 600-3 600	Low double bond polyoxpropylene diol of molecular weight ca. 8000 g/mol. It is designed for specialty products: adhesives, hybrid sealants, printing inks, etc.
Rokopol® LDB Delta 12000	9-11	4 000-8 000	Low double bond polyoxpropylene diol of molecular weight ca. 12000 g/mol. It is designed for specialty products: adhesives, hybrid sealants, printing inks, etc.
Rokopol® LDB Delta 18000	5-7	19 000-27 000	Low double bond polyoxpropylene diol of molecular weight ca. 18000 g/mol. It is designed for specialty products: adhesives, hybrid sealants, printing inks, etc.
Rokopol® M5000	33-37	700-960	High molecular weight reactive polyoxyalkylated polyether polyol of molecular weight ca. 4800 g/mol. It is designed as an intermediate for the production of polyurethane prepolymers, 1K and 2K adhesives.
Rokopol® M5020	33-38	700-1 000	High molecular weight reactive polyoxyalkylated polyether polyol of molecular weight ca. 4800 g/mol. It is designed as an intermediate for the production of polyurethane prepolymers, 1K and 2K adhesives. These products provide enhanced reactivity and polarity in comparison to Rokopol® M5000.

# Polyester polyols for CASE applications

PRODUCT	HYDROXYL NUMBER [mg KOH/g]	DYNAMIC VISCOSITY AT 25°C [mPa·s]	FEATURES
Rokester® C1520	150-165	2000-3300	Hydrophobic natural oil based polyol for floor coatings.
Rokester® C1610	155-170	1000-1400	Hydrophobic natural oil based polyol for floor coatings.





PCC Rokita S.A.  
PCC PU Sp. z o.o.  
ul. Sienkiewicza 4  
56-120 Brzeg Dolny, Poland  
products@pcc.eu

Please visit our Group's business  
platform:

[www.products.pcc.eu](http://www.products.pcc.eu)



April 2022

The information in the catalogue is believed, to the best of our knowledge, to be accurate, but it should be considered as introductory only. The detailed information about products is available in TDS and MSDS. Suggestions for product applications are based on our best knowledge.

The responsibility for the use of products in conformity with the suggested applications or otherwise and for determining the product suitability for your own purposes rests with the user.

All copyright, trademark rights and other intellectual and industrial property rights and the resulting rights to use this publication and its contents have been transferred to PCC Rokita S.A., PCC PU Sp. z o.o. or its licensors. All rights reserved.

Users/readers are not entitled to reproduce this publication in whole or in part, nor are they entitled to reproduce it (excluding reproduction for personal use) or to transfer it to third parties.

Permission to reproduce this information for personal use does not apply in respect to data used in other publications, in electronic information systems, or in other media publications. PCC Rokita S.A., PCC PU Sp. z o.o. shall not be responsible for data published by users.

**pcc**  
*More than  
Chemistry*