Covered Bonds follow-up Rating

KBC Bank N.V.

Mortgage Covered Bond Program

Creditreform ⊆ Rating

Rating Object	Rating Information	
KBC Bank N.V., Mortgage Covered Bond Program	Rating / Outlook : AAA / Stable	Type: Rating Update (unsolicited)
Type of Issuance: Mortgage Covered Bond under Belgian law Issuer: KBC Bank N.V.	Rating Date: Rating Renewal until: Maximum Validity:	15.02.2022 Withdrawal of the rating 01.01.2050
LT Issuer Rating: A+ (KBC Bank) ST Issuer Rating: L2 Outlook Issuer: Stable	Rating Methodology :	CRA "Covered Bond Ratings"

Program Overview			
Nominal value	EUR 11,670 m.	WAL maturity covered bonds	3.64 Years
Cover pool value	EUR 16,640 m.	WAL maturity cover pool	4.64 Years
Cover pool asset class	Mortgages	Overcollateralization (nominal/committed)	42.24%/ 5.00%
Repayment method	Soft Bullet	Min. overcollateralization	5.00%
Legal framework	Belgium Covered Bonds	Covered bonds coupon type	Fix (100.00%), Floating (0.00%)

Cut-off date Cover Pool information: 31.12.2021

Rating Action

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This follow-up report covers our analysis of the mortgages covered bond program issued under Belgian law by KBC Bank N.V. ("KBC Bank"). The total covered bond issuance at the cut-off date (31.12.2021) had a nominal value of EUR 11,670.00 m, backed by a cover pool with a current value of EUR 16,639.63 m. This corresponds to a nominal overcollateralization of 42.24%. The cover assets include Belgium mortgages obligations in Belgium.

Taking into consideration the issuer rating, our analysis of the regulatory framework, liquidity-and refinancing risks, as well as our cover pool assessment and results of the cash flow analysis, Creditreform Rating AG ("Creditreform Rating" or "CRA") affirms the covered bond program with an AAA rating. The AAA rating represents the highest level of credit quality and the lowest investment risk.

Key Rating Findings

- Covered Bonds are subject to strict legal requirements
- Covered bonds are backed by the appropriate cover asset class
- + Covered bond holders have recourse to the issuer
- +/- Covid-19 can leads to sustained impacts on cover assets and the issuer rating
- High dependency on Interest income amid a low interest environment, which puts significant pressure on profitability of the issuer

Table1: Overview results

Risk Factor	Result
Issuer rating	A+ (rating as of 01.10.2021)
+ Legal and regulatory framework	+4 Notches

+ Liquidity and refinancing risk	+1 Notch
= Rating after 1 st uplift	AAA
Cover pool & cash flow analysis	AAA
+ 2 nd rating uplift	+3 Notches
= Rating covered bond program	AAA

Issuer Risk

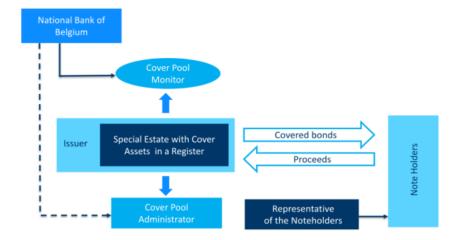
Issuer

Our rating of KBC Bank N.V. Mortgage Covered Bond Program is reflected by our issuer rating opinion of KBC Group N.V. due to its group structure. On 01 October 2021, Creditreform Rating upgraded the unsolicited long-term issuer rating of KBC Group N.V. to "A+" from "A" and increased the outlook to stable from negative. The raise of the outlook is related to the Corona pandemic impact, which did not materialize as previously expected. In addition, we expect KBC already in 2021 to regain its convincing pre-Corona level of profitability. The upnotch of the credit rating of the issuer is among others a result of our change in methodology. Moreover, KBC benefits from its strong bank insurance business and its significant market shares in economic strong as well as upcoming countries. Furthermore, KBC increased its capitalization despite already being on a strong level but risks may arise from the significant potential problem loans (stage 2) exposure. Uncertainties exist due to the withdrawal from Ireland whereby the withdrawal will likely have a positive impact on the banks asset quality. For a more detailed overview of the issuer rating, please refer to the webpage of Creditreform Rating AG.

Structural Risk

Transaction structure

Figure 1: Overview of Covered Bond emission | Source: KBC Bank Debt presentation



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Legal and Regulatory Framework

Belgium introduced the legal framework on covered bonds and their issuance by credit institutions to foster the mobilisation of claims in the financial sector ('Mobilisation Law') on 8/3/2012, which was later incorporated in the Belgian 'Banking law' of 25/4/2014 on the status and supervision of credit institutions. Under this framework, any universal credit institution licensed by the National Bank of Belgium (NBB) is permitted to issue covered bonds, although these institutions need approval from the NBB as covered bonds.

The European Commission on November 2019 adopted the legislative package to provide for enhanced harmonisation of the EU covered bond market. The Directive requirements include asset eligibility criteria, liquidity buffer, maturity extensions as well as the role of the cover pool monitor. Each of the Member States should implement the Covered Bond Directive by 8 July 2021 and the national measures shall be applied at the latest from 8 July 2022. The transposition of EU Directive into national law is not yet completed in Belgium¹. It is yet to be seen if the directive has a potential impact on the legal and regulatory framework currently in force for the issuance of covered bonds once the transposition is completed.

A comprehensive overview of the covered bond legislation that governs the covered bonds in Belgium, can be found in our initial and follow-up rating reports of KBC Bank Mortgage Covered Bonds. The following major provisions describe the status of the legislation.

The covered bondholders have direct recourse to the issuer and a preferential claim over the cover pool assets secured by its cover asset class. For mortgage covered bonds the cover assets comprise of mortgage assets confined to EEA countries. Mixed asset cover pools are possible but restricted by regulatory limits with respect to the composition.

The Belgian legal framework stipulates that for any covered bond program an external statutory cover pool monitor has to be nominated by the issuer after being accepted by the NBB. Furthermore, in case of issuer default, a special cover pool administrator that is approved by the NBB to manage the cover pool guarantees the ongoing management of the cover pool.

In general, we consider the structural framework for covered bonds in Belgium as positive, as the framework defines clear rules to mitigate risks in particular regarding insolvency remoteness, investor's special claim vis-à-vis other creditors, among other provisions. Furthermore, it foresees clear defined asset eligibility criteria with soft LTV limits. On the other hand, Belgian legal framework does stipulate a special cover pool monitor independent from the issuer. Due to above reasons we have set a rating uplift of four (+4) notches for the regulatory and structural framework for covered bond programs in Belgium.

Liquidity- and Refinancing Risk

According to the legal framework, an overcollateralization (OC) test is required to ensure mandatory 5% minimum OC ratio on a nominal basis at any time, and the tests have to be executed and fulfilled on a daily basis. Furthermore, the Issuer is required a liquidity test to maintain a liquidity buffer to cover, for the next 180 days, all debt service outflows (interest and principal) and derivative transactions.

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 $^{^{1}\} https://ec.europa.eu/info/publications/covered-bonds-supervision-directive-transposition-status_de$

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An amortization test has to be conducted to make sure that the cash flows from the cover assets suffice to wipe off any claims of covered bond holders and other involved counterparties. Furthermore, the underlying cover pool must be subjected to a daily static stress test to ensure the present value coverage, and that the OC is maintained in case of changes in interest rates and exchange rates. All required tests have to be executed and fulfilled on a daily basis, however, regular public reporting on market and liquidity risk is not requested.

In the event of the issuer's insolvency, the Belgian legal framework stipulates that the special administrator can sell assets of the cover pool or use them as a guarantee for liquidity operations if liquidity shortfalls are foreseeable.

In general, the Belgian Covered Bond legislation and the stipulated risk management processes for liquidity risks constitute a comparatively adequate framework by which they can be effectively reduced. However, Refinancing risks, cannot be structurally completely reduced under the soft bullet repayment structures, which can only be cushioned by sufficiently high OC or other liquid funds. Nevertheless, we assess the overall legal provisions on liquidity management for covered bonds programs issued in Belgium and set a rating uplift of only one (+1) notch.

ESG Criteria

CRA generally takes ESG-relevant factors (environmental, social and governance) into account when assessing Covered Bond ratings. Overall, ESG factors have a significant impact on the current rating of this Covered Bond program. CRA identifies governance factors, in particular, to have a highly significant impact on Covered Bond ratings. Since Covered Bonds are subject to strict legal requirements, regulatory risk plays an important role in assessing the credit rating.

The Belgian Covered Bond legislation defines clear rules to mitigate risks in particular regarding insolvency remoteness, investor's special claim vis-à-vis other creditors, among other provisions. Furthermore, it foresees clear defined asset eligibility criteria with soft LTV limits. On the other hand, Belgian legal framework does stipulate a special cover pool monitor independent from the issuer. Additionally, Risk management and internal controls as well as the macro-economic factors such as hedging strategies, interest rates and yield curve are considered to have a highly significant impact on the assessment of the credit rating. Other individual factors with a potential key rating influence were not identified, and therefore did not affect the final rating.

Credit and Portfolio Risk

Cover pool analysis

The analysis of the cover pool is based on public information which has been made available by the Issuer, in particular the Harmonised Transparency Template ("HTT") as per regulatory requirements. This information was sufficient according to CRA's rating methodology "Covered Bond Ratings".

At the cut-off-date 31.12.2021, the pool of cover assets consisted of 216,679 debt receivables, of which 100.00% are domiciled in Belgium. The total cover pool volume amounted to EUR 16,639.63 m in residential (100.00%), commercial (0.00%) and others (0.00%) loans.

The residential cover pool consists of 216,679 mortgage loans having an unindexed weighted average LTV of 63.28%. The non-residential cover pool does not have any loans. The ten largest

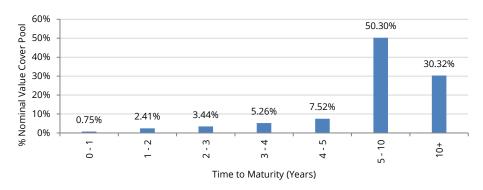
debtors of the portfolio total to 0.0006%. Table 2 displays additional characteristics of the cover pool:

Table 2: Cover pool characteristics | Source: KBC Bank

Characteristics	Value
Cover assets	EUR 16,640 m.
Covered bonds outstanding	EUR 11,670 m.
Substitute assets	EUR 28.07 m.
Cover pool composition	
Mortgages	99.59%
Substitute assets	0.17%
Other / Derivative	0.00%
Number of debtors	Not relevant
Mortgages Composition	
Residential	100.00%
Commercial	0.00%
Other	0.00%
Average asset value (Residential)	EUR 118,767 k.
Average asset value (Commercial)	Not relevant
Non-performing loans	0.0%
10 biggest debtors	0.00%
WA seasoning	54 Months
WA maturity cover pool (WAL)	4.64 Years
WA maturity covered bonds (WAL)	3.64 Years

We have listed an extended view of the composition of the cover pool in the appendix section "Cover pool details". The following chart displays the maturity profile of the cover assets at the cut-off date 31.12.2021 (see figure 2):

Figure 2: Distribution by remaining time to maturity I Source: KBC Bank



Maturity profile

The following charts present the cash flow profile of the Issuer (see figure 3 and figure 4):

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Figure 3: Cover asset congruence | Source: KBC Bank

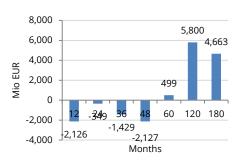
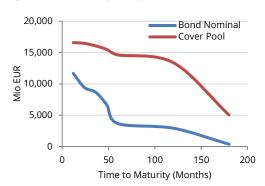


Figure 4: Amortization profile | Source: KBC Bank



During its cash flow modelling, CRA has taken into consideration the maturity structure of cover assets and liabilities. This structure was an integral part of the cash flow analysis.

Interest rate and currency risk

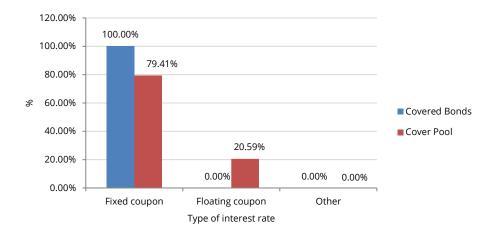
In order to reduce the exposure to the interest rate and currency risks, derivative contracts can be used to hedge these risks. Furthermore, the Belgian Covered Bond Law stipulates that any liquidity needs within the next six months have to be covered by liquid cover assets. Currency risk, on the other hand, is also limited for this program as 100.00% of the cover pool assets and 100.00% of the cover bonds are denominated mainly in euro. Nevertheless, we have applied interest rate stresses on the cash flows for each rating level according to our methodology.

Table 3: Program distribution by currency | Source: KBC Bank

Currency	Volume	Share (%)
Cover Pool		
EUR	16,640 m.	100.00%
Covered Bond		
EUR	11,670 m.	100.00%

Figure 5 shows the types of interest rate used in this program

Figure 5: Type of interest rate | Source: KBC Bank



Credit Risk

The credit risk assessment for Mortgage Covered Bond have been determined in accordance with CRA rating methodology for Covered Bonds by means of historical data and particular parameters from the Covered Bonds.

Due to the high granularity of mortgage pools we have characterized these portfolios as big enough and with a homogeneous composition i.e. ("Large Homogeneous Portfolio", LHP). Furthermore, under that premise we have assumed that it is possible to derive a loss distribution. CRA has used the issuer's historical NPL ratios to derivate a conservative default rate proxy for the approximation through the LHP distribution. Additionally, for the assessment of public sector assets in the cover pool, due to insufficient information, CRA has assumed that such assets are in default i.e. approx. 0.24% of the cover pool value. Summarizing, it has been assumed for KBC Bank a combined expected default rate of 2.04% for the LHP. Furthermore, CRA has considered a 15,00% correlation to define the LHP distribution. Table 4 disclosed the expected default rate for each relevant rating level.

In order to derive recovery and loss-severity base case assumption, CRA has used historical data from mortgage price indexes. To determine loan-level recovery assumptions the resulting stressed recoveries assumptions were compared with the portfolio's existing loan-to-value ratios (LTVs).

Based on the default rates and taking into account the recovery assumptions, the following loss assumptions were determined for the current cover pool (see Table 4)

Table 4: Cover Pool Base case assumptions | Source: CRA

Rating	Default Rate (%)	Recoveries (%)	Expected Loss (%)
AAA	46.09%	77.63%	10.31%
AA+	42.97%	79.14%	8.97%
AA	37.99%	81.72%	6.94%
AA-	33.71%	83.78%	5.47%
A+	31.98%	84.56%	4.94%
Α	31.94%	84.58%	4.93%
A-	30.78%	85.13%	4.58%

Cash-Flow Analysis

Model Assumptions

Based on public information and using the base case loss assumptions, we implement a scenario-based cash flow model. This model aims to test the ability of the structure to service all covered bonds according to their payment profile in diverse stress scenarios. The CRA cash flow analysis assumes that the Issuer has defaulted, i.e. all obligations will be met using cash flows from the cover pool assets only. We also assume that no additional assets will be added to the cover pool during the wind-down phase.

This program issues covered bonds with soft bullet maturity structure, i.e. a 12 months maturity extension upon the final legal maturity. This characteristic of the covered bonds has been taken into account during our cash-flow analysis.

The cash-flow analysis considers, among other factors, asset value haircuts ("asset-sale discount"), and the possible positive yield spread between covered assets and covered bonds ("yield spreads"). To derive the asset-sale discount, CRA assumes, based on secondary market data, a rating level haircut on the asset value. Furthermore, CRA, using available public information (i.e. issuer's annual accounts), has derived estimations for yield spreads (see table 5):

Table 5: Cash-Flow Model assumptions | Source: CRA

Rating level	Asset-Sale Discount	Yield Spread
AAA	71.71%	2.15%
AA+	66.09%	2.18%
AA	62.48%	2.20%
AA-	59.03%	2.22%
A+	56.38%	2.24%
Α	54.21%	2.25%
A-	51.37%	2.27%

Rating Scenarios

In our cash flow model rating scenarios have been tested considering several central input parameters, such as:

- Portfolio composition (diversification, concentration, granularity)
- Probability of default of cover assets
- Correlations of cover assets and systematic risk factors
- Recoveries
- Maturity profile of covered bonds and cover assets (ALM)

Within an AAA rating scenario, the cash flow model showed that obligations can be paid fully and in a timely manner. Overall, the cash flow analysis revealed that the portfolio, given all used information as of 31.12.2021, may ensure the repayment of bonds' nominal capital notwithstanding the occurrence of the presented stressed scenarios.

Overcollateralization Break-Even Analysis

CRA also performed a break-even OC analysis taking into considerations the following drivers: ALM, Loss level, Interest rate spreads, foreign currency mismatches and Recoveries. Performing the break-even OC analysis, we took rating-level specific stressed outcomes into account. Based on these analyses, the maximum OC required for each relevant rating level during the whole period has been presented in table 6.

Table 6: Breakeven Analysis | Source: CRA

Rating Level	Break-Even OC
AAA	31.17%
AA+	27.23%
AA	23.42%
AA-	20.37%
A+	18.71%
A	17.78%
A-	16.22%

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Sensitivity Analysis

CRA also evaluates the sensitivity of the structure and program with respect to important input parameters. In particular, the following factors have been varied:

- Credit quality of cover assets
- Recoveries

The following table presents the rating impact of a decline in recoveries and an increase in the credit risk of single debtors. Starting from the best-case, which is represented by our base case assumptions, the analysis reveals the sensitivity of the rating with respect to recovery rates and credit risk. The worst-case scenario, in which we reduce recoveries by 50% and increase credit risk by 50%, the impact can be seen by a reduction in the base case rating by 7 notches to BBB+ (see Table 7):

Table 7: Covered Bond Program Sensitivity: Credit Quality und Recovery Rates | Source: CRA

Recovery Defaults	Base Case	-25%	-50%
Base Case	AAA	AA+	AA-
+25%	AAA	AA	A+
+50%	AAA	AA-	BBB+

In general, based on the presented cash flow analysis results, the rating of the cover pool within our covered bond program rating has been set at AAA. This ensures a possible uplift of three (+3) notches, however, the secondary rating uplift has been set at zero (0) notch as the maximum attainable rating for this program has already been achieved.

However, it is worth mentioning that, the ongoing Covid-19 crisis could have a potential impact on the cover pool. It remains to be seen how serious the effects of the lockdown, among other things, will be. Should there be any changes to the cover pool and the issuer rating in the future, we will include them during our monitoring process.

Counterparty Risk

Derivatives

No derivatives in use at present.

Commingling

In the event of issuer's bankruptcy, in order to avoid commingling of funds, the Belgian covered bond law stipulates that the cover assets should be isolated from the general bankruptcy estate (insolvency-free assets) and a special cover pool administrator will be appointed to manage the cover pool. Under that mandate the cover pool administrator will have first priority on the upcoming cash flows from the cover pool assets, which in turn should be used to cover interest and principal payments of the covered bond holders in event of the Issuer's insolvency.

Appendix

Rating History

Event	Rating Date	Publication Date	Result
Initial Rating	20.02.2019	28.02.2019	AAA/ Stable
Rating Update	21.02.2020	26.02.2020	AAA/ Stable
Monitoring	24.03.2020	28.03.2020	AAA/ Watch negative
Rating Update	18.02.2021	24.02.2021	AAA/ Stable
Monitoring	05.07.2021	06.07.2021	AAA/ Watch unknown
Monitoring	11.11.2021	16.11.2021	AAA/ Stable
Rating Update	15.02.2022	21.02.2022	AAA/ Stable

Details Cover Pool

Table 8: Characteristics of Cover Pool | Source: KBC Bank

Characteristics	Value
Cover Pool Volume	EUR 16,640 m.
Covered Bonds Outstanding	EUR 11,670 m.
Substitute Assets	EUR 28 m.
Share Derivatives	0.00%
Share Other	100.00%
Substitute Assets breakdown by asset type	
Cash	41.24%
Guaranteed by Supranational/Sovereign agency	58.76%
Central bank	0.00%
Credit institutions	0.00%
Other	0.00%
Substitute Assets breakdown by country	
Issuer country	41.24%
Eurozone	58.76%
Rest European Union	0.00%
European Economic Area	0.00%
Switzerland	0.00%
Australia	0.00%
Brazil	0.00%
Canada	0.00%
Japan	0.00%
Korea	0.00%
New Zealand	0.00%
Singapore	0.00%

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Other 0.00% Cover Pool Composition 99.59% Total Substitute Assets 0.17% Other / Derivatives 0.00% Number of Debtors NR Distribution by property use Residential 100.00% Other 0.00% Other 0.00% Other 0.00% Other 0.00% Other 0.00% Second home 0.00% Non-owner occupied 4.46% Agricultural 0.00% Agricultural 0.00% Other 20.06% Distribution by Commercial type Retail NR Office NR Hotel NR Shopping center NR Industry NR Land NR Average asset value (Residential) EUR 118,767 k. Average asset value (Commercial) NR Share Non-Performing Loans 0.07% Share of 10 biggest debtors 0.009 WAL (months) 98 Distribution by Country (%) Belgium 100.00 Distribution by Country (%) Belgium 0.09 Brussels-Capital Region 6.27 Walloon Brabant 0.92 Flemish Brabant 17.58 Antwerp 27.77	US	0.00%
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Hotel Shopping center NR Industry NR Land Other NR Average asset value (Residential) Share Non-Performing Loans Share of 10 biggest debtors WA Maturity (months) Distribution by Country (%) Belgium Distribution by Region (%) Unknown Brussels-Capital Region Walloon Brabant Flemish Brabant NR NR SUR 118,767 k. NR O.07% SNR O.07% SNR O.006% NR O.0006% NR O.0006% NR O.0006% NR O.0006% NR O.0006%	Retail	NR
Shopping center Industry NR Industry NR Land NR Other NR Average asset value (Residential) EUR 118,767 k. Average asset value (Commercial) NR Share Non-Performing Loans O.0006% Share of 10 biggest debtors VAM Maturity (months) 186 WAL (months) Distribution by Country (%) Belgium 100.00 Distribution by Region (%) Unknown 0.09 Brussels-Capital Region Walloon Brabant 0.92 Flemish Brabant 17.58	Office	NR
Industry Land Other NR Average asset value (Residential) EUR 118,767 k. Average asset value (Commercial) NR Share Non-Performing Loans O.0006% WA Maturity (months) 186 WAL (months) 98 Distribution by Country (%) Belgium 100.00 Distribution by Region (%) Unknown Brussels-Capital Region Walloon Brabant Flemish Brabant 17.58	Hotel	NR
Land Other NR Average asset value (Residential) EUR 118,767 k. Average asset value (Commercial) NR Share Non-Performing Loans O.07% Share of 10 biggest debtors 0.0006% WA Maturity (months) 186 WAL (months) 98 Distribution by Country (%) Belgium 100.00 Distribution by Region (%) Unknown 0.09 Brussels-Capital Region 6.27 Walloon Brabant 0.92 Flemish Brabant 17.58	Shopping center	NR
Other NR Average asset value (Residential) EUR 118,767 k. Average asset value (Commercial) NR Share Non-Performing Loans 0.07% Share of 10 biggest debtors 0.0006% WA Maturity (months) 186 WAL (months) 98 Distribution by Country (%) Belgium 100.00 Distribution by Region (%) Unknown 0.09 Brussels-Capital Region 6.27 Walloon Brabant 0.92 Flemish Brabant 17.58	Industry	NR
Average asset value (Residential) Average asset value (Commercial) Share Non-Performing Loans Share of 10 biggest debtors WA Maturity (months) WAL (months) Distribution by Country (%) Belgium Distribution by Region (%) Unknown Brussels-Capital Region Walloon Brabant O.07% EUR 118,767 k. NR D.007% 100006% 186 186 100.00 0.009 6.27 Walloon Brabant 0.92 Flemish Brabant 17.58	Land	NR
Average asset value (Commercial) Share Non-Performing Loans Share of 10 biggest debtors WA Maturity (months) WAL (months) Distribution by Country (%) Belgium Distribution by Region (%) Unknown Brussels-Capital Region Walloon Brabant 0.92 Flemish Brabant NR NR NR 0.007% 0.007% 100.006% NB 100.006% NB 100.00 0.09 6.27 Walloon Brabant 0.92 Flemish Brabant 17.58	Other	NR
Share Non-Performing Loans Share of 10 biggest debtors WA Maturity (months) WAL (months) Belgium Distribution by Country (%) Belgium 100.00 Distribution by Region (%) Unknown Brussels-Capital Region Walloon Brabant 0.92 Flemish Brabant 10.007% 0.007% 0.007% 0.007% 0.009 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 10	Average asset value (Residential)	EUR 118,767 k.
Share of 10 biggest debtors WA Maturity (months) 186 WAL (months) 98 Distribution by Country (%) Belgium 100.00 Distribution by Region (%) Unknown Brussels-Capital Region Walloon Brabant 0.92 Flemish Brabant 100.00 17.58	Average asset value (Commercial)	NR
WA Maturity (months) WAL (months) Distribution by Country (%) Belgium 100.00 Distribution by Region (%) Unknown Brussels-Capital Region Walloon Brabant 17.58	Share Non-Performing Loans	0.07%
WAL (months) Distribution by Country (%) Belgium 100.00 Distribution by Region (%) Unknown 0.09 Brussels-Capital Region Walloon Brabant 0.92 Flemish Brabant 17.58	Share of 10 biggest debtors	0.0006%
Distribution by Country (%) Belgium 100.00 Distribution by Region (%) Unknown 0.09 Brussels-Capital Region 6.27 Walloon Brabant 0.92 Flemish Brabant 17.58	WA Maturity (months)	186
Belgium 100.00 Distribution by Region (%) Unknown 0.09 Brussels-Capital Region 6.27 Walloon Brabant 0.92 Flemish Brabant 17.58	WAL (months)	98
Distribution by Region (%) Unknown Brussels-Capital Region Walloon Brabant 0.92 Flemish Brabant 17.58	Distribution by Country (%)	
Unknown 0.09 Brussels-Capital Region 6.27 Walloon Brabant 0.92 Flemish Brabant 17.58	Belgium	100.00
Brussels-Capital Region 6.27 Walloon Brabant 0.92 Flemish Brabant 17.58	Distribution by Region (%)	
Walloon Brabant 0.92 Flemish Brabant 17.58	Unknown	0.09
Flemish Brabant 17.58	Brussels-Capital Region	6.27
	Walloon Brabant	0.92
Antwerp 27.77	Flemish Brabant	17.58
	Antwerp	27.77

Mortgage Covered Bond Program

Creditreform C Rating

Limburg	12.32
Liège	1.79
Namur	0.13
Hainaut	0.60
Luxembourg	0.14
West Flanders	14.24
East Flanders	18.16

Table 9: Participant counterparties | Source: KBC Bank

Role	Name	Legal Entity Identifier
Issuer	KBC Bank	6B2PBRV1FCJDMR45RZ53
Servicer	KBC Bank	6B2PBRV1FCJDMR45RZ53
Account Bank	KBC Bank	6B2PBRV1FCJDMR45RZ53

Figure 6: Arrears Distribution | Source: KBC Bank

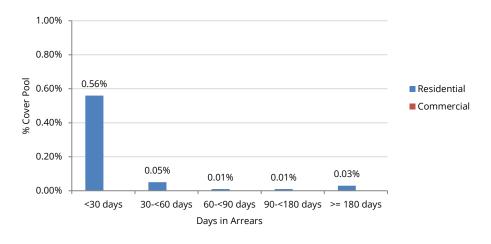


Figure 7: Program currency mismatches | Source: KBC Bank

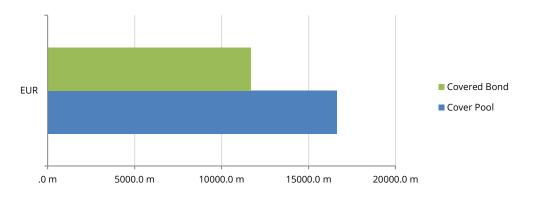
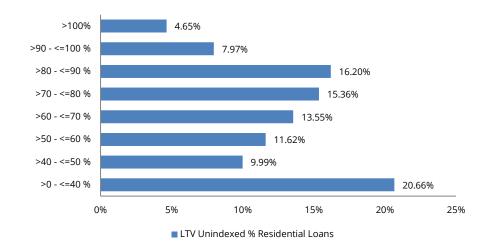


Figure 8: Unindexed LTV breakdown - residential pool | Source: KBC Bank



Creditreform ⊆ Rating

Key Source of Information

Documents (Date: 31.12.2021)

Issuer

- Audited consolidated annual reports of KBC Bank (Group) 2017-2020
- Final Rating report as of 01.10.2021
- Miscellaneous Investor Relations Information and Press releases
- Other rating relevant data from CRA eValueRate databank

Covered Bond and Cover Pool

- HTT Reporting from KBC Bank as of 31.12.2021
- Base prospectus of KBC Bank Residential Mortgage Covered Bond Program dated 09.11.2021
- Market data Mortgage Covered Bond Program

Regulatory and Legal Disclosures

Creditreform Rating AG was neither commissioned by the rating object nor by any other third parties for the rating. The analysis took place on a voluntary basis by Creditreform Rating AG and is to be described in the regulatory sense as an unsolicited rating. The rating was conducted on the basis of Creditreform Rating 's "Covered Bond Ratings" methodology (v1.0, July 2017) and "Technical Documentation Portfolio Loss Distributions" (v.1.0, July 2018) in conjunction with Creditreform 's basic document "Rating Criteria and Definitions" (v1.3, January 2018). On the subject of ESG (environment, social and governance), Creditreform Rating AG has published the basic document "The Impact of ESG Factors on Credit Ratings" (March 2020).

Unsolicited Credit Rating	
With Rated Entity or Related Third Party Participation	NO
With Access to Internal Documents	NO
With Access to Management	NO

The rating is based on publicly available information and internal evaluation methods for the rated bank and program. The issuer's quantitative analysis is based mainly on the latest annual accounts, interim reports, other information of the bank pertaining to investor relations, and key figures calculated by CRA/ eValueRate database. The cover pool's quantitative analysis for the rated Covered Bond Program was based on the "Harmonised Transparency Template" (HTT) published by the KBC Bank.

A complete description of Creditreform Rating's rating methodologies and Creditreform's basic document "Rating Criteria and Definitions" is published on the following internet page:

www.creditreform-rating.de/en/regulatory-requirements/

This rating was carried out by analysts Aaron Kamruzzaman (Analyst) and Qinghang Lin (Analyst) both based in Neuss/Germany. On 15.02.2022, the rating was presented to the rating committee by the analysts and adopted in a resolution. The function of Person Approving Credit Ratings (PAC) was performed by Artur Kapica (Senior Analyst).

On 15.02.2022, the rating result was communicated to KBC Bank, and the preliminary rating report was made available. The Issuer and all relevant parties examined the rating report prior to publication and were given at least one full working day to appeal the rating committee decision and provide additional information. The rating decision was not amended following this examination.

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The rating is subject to one-year monitoring from the creation date (see cover sheet). Within this period, the rating can be updated. After one year at the latest, a follow-up is required to maintain the validity of the rating.

In 2011 Creditreform Rating AG was registered within the European Union according to EU Regulation 1060/2009 (CRA-Regulation). Based on the registration Creditreform Rating AG (CRA) is permitted to issue credit ratings within the EU and is bound to comply with the provisions of the CRA-Regulation.

Endorsement

Creditreform Rating did not endorse the rating according Article 4 (3), CRA-Regulation.

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No conflicts of interest were identified during the rating process that might influence the analyses and judgements of the rating analysts involved or any other natural person whose services are placed at the disposal or under the control of Creditreform Rating AG and who are directly involved in credit rating activities or approving credit ratings and rating outlooks.

In the event of provision of ancillary services to the rated entity, CRA will disclose all ancillary services in the credit rating report.

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The approval of credit ratings and rating outlooks follows our internal policies and procedures. In line with our policy "Rating Committee," all credit ratings and rating outlooks are approved by a rating committee based on the principle of unanimity.

To prepare this credit rating, CRA has used following substantially material sources:

- 1. Transaction structure and participants
- 2. Transaction documents
- 3. Issuing documents
- 4. Other rating relevant documentation

There are no other attributes and limitations of the credit rating or rating outlook other than displayed on the CRA website. Furthermore, CRA considers satisfactory the quality and extent of information available on the rated entity. In regard to the rated entity, Creditreform Rating AG regarded available historical data as sufficient.

Between the disclosure of the credit rating to the rated entity and the public disclosure no amendments were made to the credit rating.

The rating report and/or Press release indicate the principal methodology or version of methodology that was used in determining the rating, with a reference to its comprehensive description.

In cases where the credit rating is based on more than one methodology, or where reference only to the principal methodology might cause investors to overlook other important aspects of the credit rating, including any significant adjustments and deviations, Creditreform Rating AG explains this fact in the credit rating and indicates how the different methodologies and other

Creditreform C Rating

aspects are taken into account in the credit rating. This information is integrated in the credit rating report.

The meaning of each rating category, the definition of default or recovery, and any appropriate risk warning, including a sensitivity analysis of the relevant key rating assumptions, such as mathematical or correlation assumptions, accompanied by worst-case scenario credit ratings as well as best-case scenario credit ratings, are explained.

The date at which the credit rating was released for distribution for the first time and when it was last updated including any rating outlooks, is indicated clearly and prominently in the rating report and/or Press Release as a "Rating action"; first release is indicated as "initial rating", other updates are indicated as an "update", "upgrade or downgrade", "not rated", "confirmed", "selective default".

In the case of a rating outlook, the time horizon is provided during which a change in the credit rating is expected. This information is available within the rating report and/or Press Release.

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Creditreform Covered Bond Rating

KBC Bank N.V.

Mortgage Covered Bond Program

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