Product Declaration - DGNB New Construction Office and Administration Buildings (NBV12)

MANUFACTURER MKT GmbH & Co.KG PRODUCT NAME

MKT Liquid Anchor 2Kfix

Product Characteristics

Two component polyurethane system for light duty fixings into concrete as well as solid and perforated brickwork. Due to its' high adhesive strength and slightly expanding nature during the curing process, especially suitable to fill or repair broken or oversized drill holes in mineral base materials as well as all wooden building materials.

Product Rating DGNB Criteria

The product meets the requirements of quality level 1 to 4 and contributes to achieve 100 (of max. 100 achievable) checklist points according to criterion 'ENV1.2 Local Environmental Impact'.

The product does not lead to toxic or corrosive fumes in case of fire. Hence this product contributes to achieve 20 (of max. 20 achievable) checklist points according to criterion 'SOC 1.7 Safety and Security'.

The product contains the following components:	Mass pe unit [%]
K1 MKT Liquid Anchor 2Kfix	100%
oout DGNB Products - www.dgnb.de	

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MANUFACTURERMKT GmbH & Co.KGPRODUCT NAMEMKT Liquid Anchor 2Kfix

Product assessment of complete system

			Relevance	Evaluation	
Topic Number		Criteria	Sele		
	ENV1.1	Life cycle Assessment - Emissions			
	ENV1.2	Local environmental impact	\checkmark	Quality Level 3 is fulfilled	
	ENV1.3.1	Responsible procurement (Wood)			
Environmental Quality (ENV)	ENV1.3.2	Responsible procurement (Formwork)			
(ENV1.3.3	Responsible procurement (Natural Stone)			
	ENV2.1	Life cycle Assessment - Primary Energy			
	ENV2.2	Potable water demand and wastewater volume			
	ENV2.3	Land Use			
	ECO1.1	Building-related life-cycle costs			
Economic Quality (ECO)	ECO2.1	Suitability for conversion			
	ECO2.2	Marketability			
-	SOC1.1	Thermal Comfort			
-	SOC1.2	Indoor Air Quality			
-	SOC1.3	Acoustic Comfort			
-	SOC1.4	Visual Comfort			
-	SOC1.5	Occupant control			
	SOC1.6	Quality of outdoor spaces			
Sociocultural and Functional Quality (SOC)	SOC1.7	Safety and security	\checkmark	The product does not lead to toxic or corrosive fumes in case of fire	
	SOC2.1	Access for all			
	SOC2.2	Public access			
	SOC2.3	Cyclist facilities			
	SOC3.1	Design and urban quality			
-	SOC3.2	Integration of public art			
	SOC3.3	Floor Plan Qualities			
-	TEC1.1	Fire prevention			
-	TEC1.2	Noise protection			
-	TEC1.3	Building envelope quality			
Technical Quality (TEC)	TEC1.4	Adaptability of Technical Systems			
	TEC1.5	Ease of cleaning and maintenance			
-	TEC1.6	Ease of dismantling and recycling			
	TEC1.7	Sound immission control			
	PRO1.1	Comprehensive project brief			
	PRO1.2 PRO1.3	Integral design Design concept			
	PRO1.4	Sustainability aspects in tender phase			
Process Quality (PRO)					
	PRO1.5	Documentation for Facility Management			
	PRO2.1	Environmental impact of construction			
	PRO2.2	Construction quality assurance			
	PRO2.3	Systematic commissioning			
	SITE1.1	Site location risks			
Site Quality (SITE)	SITE1.2	Public image and social conditions			
	SITE1.3	Access to transportation			
	SITE1.4	Access to specific-use facilities			

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MANUFACTURER	MKT GmbH & Co.KG
PRODUCT NAME	MKT Liquid Anchor 2Kfix

Product assessment for criteria ENV1.2 - Local environmental impact

The product fulfills the requirements for Quality Level 1-3

Assessment: Quality Level 3

Goals and Relevance

Certain materials, construction products and preparations are a risk for soil, air, groundwater and surface water as well as for human's health, flora and fauna. In order to minimize risks for humans and the local environment, materials, (construction) products and preparations need to be reduced ,avoided or substituted, which due to their material properties or ingredients are a risk for surface and ground water, soil or air. Especially those materials, (construction) products and preparations must be reduced ,avoided or replaced, which affect human health, flora and fauna or harm within a short-, medium / or long-term period . This affects the entire life cycle - from production, processing at site, use of (building) inventory and disposal (dismantling, recycling, landfilling). These local risks are assessed material and product related. Hence eco-and human toxicological impact categories of LCA can not be applied due to lack of evaluation and measurement procedures.

Product Assessment

Relevant Products		elevant Products Requirements of Quality Levels		Assessement of Product	Evaluation	
5	Baseboards, door rails, support glue (double floor or raised floor)	Quality Level 1	GISCODE PU20			
	Not considered are areas of glass construction, facade and fire protection	Quality Level 2	GISCODE PU20 GISCODE PU10 or			
			EMICODE EC1 or			
	Subject: sealants, sealants,	Quality Level 3	EMICODE EC1-R or			
	adhesives for point and linear			EMICODE EC1 PLUS or	This product belongs to the group	
	bonding of components in the interior. This refers to PU adhesive	ts in the EMICODE EC1 PLUS -R GISCOD	GISCODE PU10	Quality Level 3		
	and silane-modified polymers		Use of silane-modified polymers			
	(SMP)		(SMP) or			
			GISCODE RS10 or			
		Quality Level 4				
			EMICODE EC1-R or			
			EMICODE EC1 PLUS or			
			EMICODE EC1 PLUS -R			

Other remarks on classification

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The product fulfills the requ	uirments for prevention of fumes.	Assessment	20 of 20 Checklist Points		
Product assessment for criteria SOC1.7 - Safety and Security					
PRODUCT NAME	MKT Liquid Anchor 2Kfix				
MANUFACTURER	MKT GmbH & Co.KG				

Goals and Relevance

A high sense of security contributes fundamentally to the comfort of human being. The goal is to avoid dangerous situations as much as possible and to reduce the impact of a non-preventable damage, as far as possible. The criterion safety and security assesses also the performance of products in case of fire.

Product Assessment

	Relevant Requirements	Requirements of Quality Levels	Assessement of Product	Evaluation
2.	3 Prevention from risks of fumes	20 Checklist Points The product does not lead to toxic or corrosive fumes in case of fire	The product does not lead to toxic or corrosive fumes in case of fire.	20 Checklist Points

Other remarks on classification