

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

MANUFACTURER	MKT GmbH & Co.KG
PRODUCT NAME	MKT Chemical Capsule V-P

Product Characteristics

Mortar-filled glass capsule for stress free anchorings with European Technical Approval. Suitable for fixing of heavy loads with smaller spacings and edge distances in non-cracked concrete.

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 per unit [%]
K1 MKT Chemical Capsule V-P	100%

About DGNB Products - www.dgnb.de

This declaration helps to assess products easily according the certification system DGNB. Products are not reviewed or certified by DGNB. DGNB credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. Therefore the project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve DGNB points. Detailed information are on the next pages.

greenbuildingproducts.eu

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

MANUFACTURER MKT GmbH & Co.KG

PRODUCT NAME MKT Chemical Capsule V-P

Product assessment of complete system

Торіс	Number	Criteria	Relevance	Evaluation
	ENV1.1	Life cycle Assessment - Emissions		
	ENV1.2	Local environmental impact	✓	Quality Level 4 is fulfilled
	ENV1.3.1	Responsible procurement (Wood)		
Environmental Quality (ENV)	ENV1.3.2	Responsible procurement (Formwork)		
Environmental Quality (ENV)	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	✓	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	Integral design		
	PRO1.3	Design concept		
Process Quality (PRO)	PRO1.4	Sustainability aspects in tender phase		
	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		

greenbuildingproducts.eu

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

MANUFACTURER	MKT GmbH & Co.KG
PRODUCT NAME	MKT Chemical Capsule V-P

Product assessment for criteria ENV1.2 - Local environmental impact

The product fulfills the requirements for Quality Level 1-4

Assessment: Quality Level 4

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	levant Products Requirements of Quality Levels		Assessement of Product	Evaluation
6	Small surface adhesions of mechanically loaded joints; not considered are areas of glass	Quality Level 1	No requirements		
	construction, facade and fire protection	Quality Level 2	No requirements		
		Quality Level 3	The product is free of chlorinated paraffins as a component OR is certified with RAL-UZ 123 (Blauer Engel)	The product is free of chlorinated paraffins as a recipe component	Quality Level 4*
		Quality Level 4	The product is certified with RAL- UZ 123 (Blauer Engel) or equivalent		

Other remarks on classification

*The product is neither an acrylate sealant or adhesive nor a silicone sealant and falls strictly speaking not under DGNB requirements. The product contributes to achieve quality level 4.

greenbuildingproducts.eu

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

MANUFACTURER MKT GmbH & Co.KG

PRODUCT NAME MKT Chemical Capsule V-P

Product assessment for criteria SOC1.7 - Safety and Security

The product fulfills the requirments for prevention of fumes.

Assessment: 20 of 20 Checklist Points

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		evant 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