PAGEL®

PAGEL®-CONSTRUCTION MORTAR

ACCORDING TO RILI-SIB

M 3 US

PROPERTIES

- PCC Repairing System to **preserve the stability** of concrete components according to RiLi-SIB, part 2, for application within **the fields of stress and strain classification** M 2 **and** M 3
- **corresponds to the building material classification B2** according to DIN 4102-2
- **optimal creep behaviour** when loaded
- **excellent suitability** for applying on **vertical surfaces and overhead**
- **allows vapour diffusion** and is **resistant to frost and dew-salt**
- **plastic-modified** and ready-for-use, needs only be mixed with water
- **highly resistant to carbonating**, is impervious to water, to the greatest possible extent dense to oil, slows down corrosion, resistant to saponification
- is monitored in accordance with the standards and guidelines in force and production is certified in accordance with **ISO 9001**
- **is being delivered as a system** and consists of the following products:

MSO2 PAGEL-CORROSION-PROTECTION AND ADHESION-LAYER

M 3® PAGEL-CONSTRUCTION-MORTAR (0–2,0 mm)

FIELDS OF APPLICATION

- **coating and repairing** of bridges, tunnels and concrete buildings
- **filling of defects** in the concrete base according to the examples of use tab. 4.1 of the RiLi-SIB, part 2, version 10/01
- **repairing of used areas** underneath layers of bridges and in multi-storey car parks
- **repairing** of bridge underside views, retaining walls, abutments, façades and balconies
- in case of repairing plates **in building constructions** these can be **used immediately**

PAGEL®-CONSTRUCTION-MORTAR ACCORDING TO RILI-SIB

M 3 ®US

TECHNICAL DATA

TYPE			M 3 ®
Grain size		inch	0–0.08
Coating thickness		inch	0.20–1.57
Layer thickness in outbreaks		inch	0.24–3.94
Amount of water		%	12
Consumption		lbs/ft³	124.86
Workability		min.	60
Slump (with 16 stroke impacts)		inch	6.30
Compressive strength (DIN 1164)	24 h	PSI	2,030
	3 d	PSI	3,915
	7 d	PSI	6,525
	28 d	PSI	7,975
Bending strength	24 h	PSI	435
	3 d	PSI	725
	7 d	PSI	1,160
	28 d	PSI	1,305
Fresh mortar cross density		kg/dm³	137.35
Dry mortar cross density		kg/dm³	126.05
E-module (static)	28 d	PSI	3,770,000
Bond performance			
Bond stress	t_h	kp/cm²	1,195
Reference bond stress	t	kp/cm²	0,669
Reference bond stress	$_{80\,\%}t$	kp/cm²	0,535
Creep behavior			
Final creep measure	ϵ_∞		0,00619
Final creep number	φ_∞		1,465
Final creep load	ϵ_{el}		0,00496

All test data are values derived under normal climate conditions. 23/50-2

Supplied in: 25 kg bags
Storage: 9 months, dry, closed bags
Hazard class: no dangerous goods, please examine the material safety data sheet
GISCODE: ZP1

PROCESSING

SUBSTRATE: Clean thoroughly, free of loose and unsound material, remove any cement slurry by means of hydraulic water-blasting or similar till carrying capacity of grain structure is reached. Sufficient adhesion must be granted. (i.m. > 1,5 N/mm²). Prior to grouting the surface must be soaked for at least 6 hours till saturation. Remove rust from exposed concrete steel (degree of purity Sa 2 to Sa 2 1/2 and coat twice without gaps with M S O 2 PAGEL-CORROSION PROTECTION.

MIXING: The mortar is ready-for-use and only has to be mixed with water. Pour water (max. 3,0 l per 25 kg = 12 % each bag) into the compulsory type mixer except for a residual quantity, add dry mortar and mix for approx.
3 minutes; add the rest of the water and mix for a further 2 minutes till a lump-free consistency is reached.

ADHESION-LAYER: Mix M S O 2 PAGEL-A D H E S I O N-L A Y E R in small quantities with the maximum specified quantity of water as slurry and brush into the substrate pore-deep (according to technical leaflet).

PROCESSING: Apply M 3 PAGEL-CON-S T R U C T I O N-M O R T A R into the not yet set solid compacting adhesion-layer, distribute and smooth.

CURING: Protect the surface against premature evaporation as soon as possible, latest after starting of setting process, by keeping the same damp, for example by using a water-fognozzle, plastic sheet or hessian. Time of curing: 3 days minimum. Bei Frost setzen Sie sich bitte mit uns in Verbindung; tiefere Temperaturen verzögern die Festigkeitsentwicklung und verringern die Fließfähigkeit, höhere Temperaturen beschleunigen; kälteres Anmachwasser behindert die Fließfähigkeit.

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