

# BIGUMA®

## -Emulsion PMB70+



(formerly: HILAFLEX 70 Plus)

**Type: C70BP3-OB-1, C70BP3-OB-2**



### Use

BIGUMA®- Emulsion PMB70+ is used for "surface treatment" maintenance work according to ZTV BEA-StB. The optimised flow properties allow for use on even underlayers and moderate slopes. BIGUMA®- Emulsion PMB70+ can be used on heavily trafficked roads. BIGUMA®- Emulsion is primarily used for surface treatments on construction class IV to VI road pavements.

### Conformity

BIGUMA®- Emulsion PMB65-DSK is certified as a C70BP3-OB-1/-2 cationic bituminous emulsion according to the national framework TL BE-StB and the harmonised European standard DIN EN 13808. The high quality requirements are ensured by our continuous quality assurance.

### Properties

The breaking behaviour of BIGUMA®- Emulsion PMB65-DSK is adapted to the common types of chipping and conventional underlayers. The high binder and polymer content protects the surface treatment from loads. BIGUMA®- Emulsion PMB70+ is an especially easy-to-spray bituminous emulsion. The combination of very good wetting properties plus strong adhesive force allows BIGUMA®- Emulsion PMB65-DSK to bond asphalt layers optimally when applied properly.

BIGUMA®- Emulsion PMB70+ is especially easy to process as a product and is distinguished by the following characteristics:

- very good adhesive properties on the underlayer
- very good adhesion of grit
- easy to use and provides an even spray
- very good sealing properties
- corresponds to national regulations
- corresponds to European regulations
- very good cold and heat stability of the surface treatment
- environmentally friendly

### Application instructions

BIGUMA®- Emulsion PMB70+ should be processed at a temperature of 60 to 80 °C in order to ensure a perfect spraying appearance. If the temperature is below these values, the emulsion should be heated gently. BIGUMA®- Emulsion PMB70+ should not be processed in cold and rainy weather.

### Material consumption

For "surface treatment" repair work according to ZTV BEA-StB, the amounts of bituminous emulsion and chippings to be consumed are determined based on empirical values, whereby various influential factors are to be considered. Normal applications concern an underlayer subject to normal loads, average traffic loads and free terrain. Deviations leading to an increased amount of binder are typically coarse underlayers, low traffic

#### Central Sales

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#### Producer

Plant Wm. Hilgers

loads or a shady location. A lower amount of binder should be chosen in such cases if the underlayer is soft or subject to high traffic loads.

The following can be assumed as a guide value:

Binder	Layer	Amount of binder [kg/m <sup>2</sup> ]	Amount of aggregate [kg/m <sup>2</sup> ] for available grain size/ grain group		
			8/11	5/8	2/5
1. Surface treatment with simple scatter coating (OB-eA)					
BIGUMA®- Emulsion PMB70+		1,5 to 2,0	-	11 to 17	-
		1,2 to 1,6	-	-	9 to 14
2. Surface treatment with scatter coating (OB-dA)					
BIGUMA®- Emulsion PMB70+	1.Layer	1,6 to 2,2	10 to 13	-	-
	2.Layer	-	-	3 to 6*	3 to 6*
	1.Layer	1,4 to 1,8	-	9 to 12	-
	2.Layer	-	-	-	3 to 6
3. Double surface treatment (OB-dO)					
BIGUMA®- Emulsion PMB70+	1.Layer	1,0 to 1,7	10 to 13	-	-
	2.Layer	1,4 to 1,9	-	11 to 15*	10 to 15*
	1.Layer	1,0 to 1,7	-	9 to 12	-
	2.Layer	1,3 to 1,8	-	-	10 to 15*

\* alternatively possible

## Form of supply

Complete implementation of the surface treatment

Tanker

Service tanks

other packaging units on request

## Storage

The emulsion should be processed fresh. BIGUMA®- Emulsion PMB70+ should be used if timely processing of the fresh emulsion cannot be ensured.

## Cleaning agents

When fresh:

Water

When set:

BIGUMA®- SWS or benzines

In case of skin contact:

Hand cleansing paste

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**Technical data**

<b>BIGUMA® - Emulsion PMB70+</b>				<b>C69BP3-OB-1</b>		<b>C69BP3-OB-2</b>	
<b>Characteristic</b>		<b>DIN EN</b>	<b>Unit</b>	<b>Cl.</b>	<b>Requirement</b>	<b>Cl.</b>	<b>Requirement</b>
To be determined on the bitumen emulsion							
Breaking behaviour: Breaking value (Forshammer Füller)*	13075-1		3	70 to 155	3	70 to 155	
Binder content	1428	M.-%	10	≥ 69	10	≥ 69	
Efflux time, 2 mm at 40 °C*	12846-1	s	5	5 to 70	5	5 to 70	
Sieving residue 0,5 mm - sieve	1429	M.-%	4	≤ 0,5	4	≤ 0,5	
Sieving residue after 7 days 0,5 mm - sieve			4	≤ 0,5	4	≤ 0,5	
Adhesive performance with reference aggregate*	13614	%	3	≥ 90	3	≥ 90	
To be determined on recovered binder (recovery according to DIN EN 13074-1)							
Penetration at 25 °C*	1426	0,1 mm	5	≤ 220	4	≤ 150	
Softening point ring and sphere*	1427	°C	7	≥ 39	4	≥ 50	
Cohesion (only type BP)							
Pendulum test*	13588	J/cm <sup>2</sup>	5	≥ 0,7	5	≥ 0,7	
Breaking point according to Freaß	12593	°C	4	≤ -15	5	≤ -10	
Elastic recovery at 10 °C	13398	%	3	≥ 50	3	≥ 50	
To be determined on recovered and stabilised binder (Binding agent according to DIN EN 13074-2)							
Penetration at 25 °C*	1426	0,1 mm	1	DS	1	DS	
Softening point ring and sphere*	1427	°C	1	DS	1	DS	
Cohesion (only type BP)							
Pendulum test*	13588	J/cm <sup>2</sup>	1	DS	1	DS	
Elastic recovery at 10 °C	13398	%	1	DS	1	DS	

\*Essential characteristics according to DIN EN 13808:2013

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This product information corresponds to our latest available information. The processor is obliged to test the suitability and application options for the intended purpose. We shall be pleased to advise if you have any questions about our product. Our Terms and Conditions of Business apply, which can be found at [www.dga.de](http://www.dga.de).

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