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BITUMIX ALJ20w

Generic Data				
Product Name	Natural Asphalt			
Brand Name	BITUMIX ALJ20			
CAS Number	12002-43-6			
Main Use	Additive for Asphalt and Bituminous Waterproofing Compounds			
Registration Number	N/A (pre-registered as 601-660-8 on 30/11/2008)			
Index 67/548/EEC	N/A			
REACH	Not subject to REACH			
HS Code	27.14.90.00			

Description: DITUMIX is a high molecular weight resinous hydrocarbon. It is soluble in aromatic and aliphatic solvents, as well as petroleum asphalt. Due to its unique compatibility, it is used to harden softer petroleum products, to decrease the penetration and raise the softening point of the bitumen. It is mainly composed of asphaltenes; thus, it is classified as a Natural Asphalt, and not subject to REACH.

DITUMIX is used as additive in bituminous compounds. Thanks to the identical chemical composition (predominantly asphaltenes) the product is easily blended with the bitumen with no need for high shear milling as is the case with many other modifiers. The additive raises the compound's softening point and decrease the penetration, giving the **DITUMIX**-modified asphalts higher stability, reduced deformation, reduced temperature susceptibility and increased resistance to water stripping than non-modified asphalts.

Thanks to its lower price compared to the bitumen, **BITUMIX** also brings an economic benefit without detriment to the quality. The product can replace, depending on the type of bitumen used and the cold flexibility of the final product, up to 15% of bitumen content. It can be also used to make both solvent-based and emulsion pavement sealers with superior appearance and weathering properties. It is not soluble in water, alcohols, or acetone.

Technical Specification of Lumps

TEST	Unit	min	max	Method
Ash	wt%	12	22	ASTM D-174
Moisture	wt%	1	3	ASTM D-173
Asphaltene Content	wt%	55	65	ASTM-D172
Softening Point	°C	120	140	ASTM D-36
Flash Point	°C	280	310	Clevenland Open Cup
Specific Gravity	g/lt	1,01	1,10	ASTM-D3289
Mass Loss at 163°	%	0,7	0,9	ASTM-D1754

Packaging. IN ONE TON JUMBO BAGS LOADED IN 20' or 40' CTN OR ON TRUCK (for European destinations).

Loading Table

Loading Table (in metric tons)	In 20)' FCL	In 40' FCL		In TRUCK	
Loading Table (in metric tons)	From	То	From	To	From	To
In Jumbo Bags – LUMPS	16	18	22	24	20	22















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SOLUBILITY					
Chemical Group	Component	Soluble			
Aliphatic Hydrocarbons	VM&P Naphtha	YES			
	Mineral Spirits	YES			
	Solvents with KB	YES			
Aromatic Hydrocarbons	All	YES			
Alcohols	All	NO			
Chlorinated Hydrocarbons	All	YES			
Esters	Methyl Acetate	NO			
	Ethyl Acetate	Slight			
	n-Butyl Acetate	Slight			
Glycols	All	NO			
Glycol Ethers	All	NO			
Glycol Ether Esters	All	NO			
Ketones	Acetone	NO			
	MEK	NO			
	MIBK	NO			
Other Solvents	Carbon Disulfide	YES			
	Carbon Tetrachloride	YES			

Adhesive Capacity					
Coating System	Adesivity	Coating System	Adesivity		
Natural rubber	FAIR	Ethylene/vinyl acetate	GOOD		
Cellulose esters	POOR	SBS rubber	EXCELLENT		
Phenolic	GOOD	Polychloroprene rubber	EXCELLENT		
Resorcinol formaldehyde	FAIR	Nitrile rubber	FAIR		
Urea formaldehyde	GOOD	Butyl rubber/polyisobutylene	GOOD		
Melamine formaldehyde	GOOD	Silicone	GOOD		
Alkyd	GOOD	Polyurethane	FAIR		
Ероху	FAIR	Vinyl ethers	GOOD		
Polyurethane	FAIR	Resinates	GOOD		
Acrylic	FAIR	Resin modified	EXCELLENT		
Unsaturated polyester	FAIR	C9 aromatic	GOOD		
Polyaromatic	GOOD	DCPD	EXCELLENT		
Acrylic acid diester	POOR	Terpene	EXCELLENT		
Polyvinyl acetate	FAIR	Terpene phenolic	GOOD		
Polyvinyl alcohol	FAIR	Phenolic modified	GOOD		
Polyvinyl chloride	GOOD	maleic-fumaric modified	EXCELLENT		
Acrylic	FAIR	Alkyd	GOOD		
Polyamide	POOR	Shellac	POOR		
Phenoxy	POOR				

Standards ASTMD36-95 ed UNI EN 1426

Miscellaneous: For any other information please refer to MSDS

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