



BITUCHEM BUILDING PRODUCTS LTD

MANUFACTURERS OF BITUMINOUS PRODUCTS

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TECHNICAL DATA SHEET POLYBOND 50

POLYBOND 50

A cationic bitumen emulsion to EN13808 C50BP4

POLYBOND

Can be provided in bulk, 200kg drums or 25kg containers

POLYBOND

Has been designed to give a stronger adhesive bond between the bituminous layers than a traditional tack coat; but has the advantage of being a harder grade bitumen which helps prevent 'pick – up' at ambient temperatures.

POLYBOND

Rates of spread guidelines are given in BS EN 594987

Requirement	Selected classes from Table 3
Perceptible properties	NPD – Class 0
Particle polarity	Positive – Class 2
Breaking Value	70 – 130 – Class 4
Mixing stability with cement	NPD – Class 0
Fines mixing time	NPD – Class 0
Penetration power	NPD – Class 0
Binder content (by water content)	48 – 52 – Class 3
Recovered binder content (by distillation)	≥ 48 - Class 3
Oil distillate content	≤ 2.0 Class 2
Efflux time 2mm at 40 ° C	NPD – Class 0
Dynamic viscosity at 40 ° C	NPD – Class 0
Residue on sieving	≤ 0.1- 0.5mm Sieve Class 2 ≤ 0.5 – 0.16mm Sieve Class 3
Residue on sieving (seven days storage)	NPD – Class 0
Setting tendency	≤ 5 Class 2
Adhesivity	NPD – Class 0

Issue	1					
Date	08/12/11					
Approved	R. Lord					



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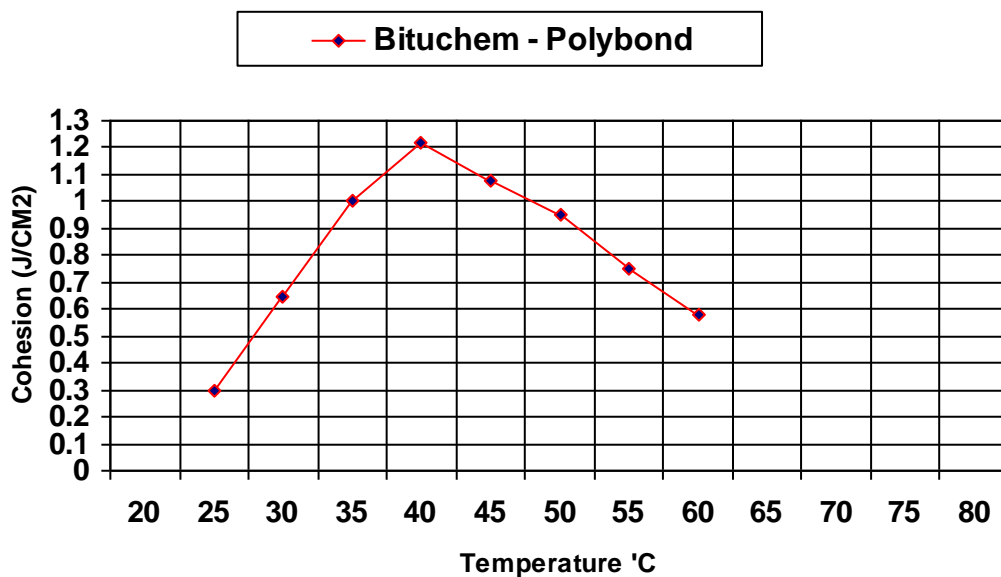
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Requirement	Selected classes from Table 4 (following evaporation)	Selected classes from Table 5 (following evaporation, stabilisation and aging)
Penetration	≤ 80 Class 2	NPD – Class 0
Softening point	≥ 43 Class 4	NPD – Class 0
Efflux time (10mm cup at 40 °C)	NPD – Class 0	NPD – Class 0
Dynamic viscosity at 60 °C	NPD – Class 0	NPD – Class 0
Kinematic viscosity at 60 °C	NPD – Class 0	NPD – Class 0
Cohesion energy by tensile test	NPD – Class 0	NPD – Class 0
Cohesion energy by force ductility at 10 °C	NPD – Class 0	NPD – Class 0
Cohesion energy by force ductility at 25 °C	NPD – Class 0	NPD – Class 0
Cohesion by pendulum test	≥ 1.0 Class 4	NPD – Class 0
Elastic recovery at 10 °C	NPD – Class 0	NPD – Class 0
Elastic recovery at 25 °C	≥ 40 – Class 3	NPD – Class 0

COHESION PERFORMANCE

Typical Vialit cohesivity (Pendulum method) test results detailed below illustrates the improvements in cohesive strength that POLYBOND provides in comparison with unmodified bitumen.



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