



Ref: CIVIL-AID/BE: CL/109/1/2017/1 **CIVIL - AID**  
Test Order dated: 02.01.2017

Date : 24.01.2017

M/s. S.S. INDUSTRIES  
No. 55/29, Wahab Nagar, Tindivanam,  
Villupuram Dist-604 002.

**TEST REPORT ON BITUMEN EMULSION SAMPLE**

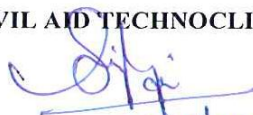
Source of Sample : Sample supplied by the customer  
Customer's Reference : Letter Dated 30.12.2016  
UIN : 17000076  
Project\* : Not Furnished  
Product Name\* : Cationic Bitumen Emulsion  
Grade/Type\* : RS-1  
Batch No\* : SSI/RS/37/2016  
MFD\* : 27/12/2016  
Period of Test : 16.01.2017 to 20.01.2017  
Condition of sample : Satisfactory  
Test Method : As per IS:8887-2004

Sl. No.	Description	Results	Requirements as per IS:8887-2004
1	Residue on 600 micron IS Sieve (% by mass)	0.01	Max. 0.05
2	Coagulation of emulsion at low temperature	Nil	Nil
3	Storage stability after 24 hours (%)	0.09	Max. 2.0
4	Viscosity by Saybolt Furol Viscometer, Seconds @ 50° C	48	20 – 100
5	Miscibility with water	No coagulation	No coagulation
<b>Test on Residue :</b>			
6	Residue by Evaporation, (%)	61.1	Min. 60
7	Penetration value (at 25°C /100g/5 Sec)	82	80 – 150
8	Ductility 25° C, (Cm)	76	Min. 50
9	Solubility in trichloroethylene (%)	99.98	Min. 98
10	Particle Charge	Positive	Positive

\* As furnished by the customer.

Note: 1. The results relate only to the items tested.  
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3. Any correction invalidates this report.

for **CIVIL AID TECHNOCLINIC PVT. LTD.**

  
25/01/2017  
**SANJEEV PATGAR**  
Quality Manager

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(A Bureau Veritas Group Company)  
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Ref: CIVIL-AID/BE: CL/109/1/2017/2 **CIVIL - AID**  
 Test Order dated: 02.01.2017

Date : 24.01.2017

M/s. S.S. INDUSTRIES  
 No. 55/29, Wahab Nagar, Tindivanam,  
 Villupuram Dist-604 002.

**TEST REPORT ON BITUMEN EMULSION SAMPLE**

Source of Sample : Sample supplied by the customer  
 Customer's Reference : Letter Dated 30.12.2016  
 UIN : 17000077  
 Project\* : Not Furnished  
 Product Name\* : Cationic Bitumen Emulsion  
 Grade/Type\* : SS-1  
 Batch No\* : SSI/RS/39/2016  
 MFD\* : 27/12/2016  
 Period of Test : 16.01.2017 to 20.01.2017  
 Condition of sample : Satisfactory  
 Test Method : As per IS:8887-2004

Sl. No.	Description	Results	Requirements as per IS:8887-2004
1	Residue on 600 micron IS Sieve (% by mass)	0.01	Max. 0.05
2	Coagulation of emulsion at low temperature	Nil	Nil
3	Storage stability after 24 hours (%)	1.3	Max. 2.0
4	Viscosity by Saybolt Furol Viscometer, Seconds @ 25° C	84	20 – 100
5	Stability to mixing with cement (Percentage coagulation)	0.1	Max. 2.0
<b>Test on Residue :</b>			
6	Residue by Evaporation, (%)	59.5	Min. 50
7	Penetration value (at 25°C /100g/5 Sec)	346	60 – 350
8	Ductility 25° C, (Cm)	64	Min. 50
9	Solubility in trichloroethylene (%)	99.98	Min. 98.0
10	Water content (%)	7	Max. 20
11	Distillation (%) volume at		
	a) 190°C	33.3	20-55
	b) 225°C	47.6	30-75
	c) 260°C	60.9	40-90
	d) 315°C	95.2	60-100
12	Particle Charge	Weak Positive	Weak Positive

\* As furnished by the customer.

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for **CIVIL AID TECHNOCLINIC PVT. LTD.**

*[Handwritten Signature]*  
 25/01/2017

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 Quality Manager

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Ref: CIVIL AID: BITUMEN: CL/109/1/2017 **CIVIL-AID**  
Test Order dated: 02.01.2017

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M/s. S.S. INDUSTRIES  
No. 55/29, Wahab Nagar, Tindivanam,  
Villupuram Dist-604 002.

**TEST REPORT ON CRUMB RUBBER MODIFIED BITUMEN**

Source of Sample : Sample supplied by the customer  
Customer's Reference : Letter dated 30.12.2016  
UIN : 17000078  
Project\* : Not Furnished  
Description\* : CRMB - 55  
Batch No\* : SSI/MB/04/2016  
MFD\* : 27/09/2016  
Period of Test : 17.01.2017 to 20.01.2017  
Condition of Sample : Satisfactory  
Technical Reference : IS:15462-2004 and ASTM D 4402

Sl. No	Name of the test	Results	Requirement as per IS : 15462-2004
1	Penetration, at 25°C, 0.1mm, 100gms, 5 sec	38	< 60
2	Softening point (°C),	61	Min. 55
3	Flash Point by COC, °C	285	Min. 220
4	Elastic recovery of half thread in Ductilometer @ 15° C, %	70	Min.50
5	Separation, Difference in softening point, R&B, °C	3.4	Max. 4.0
6	Viscosity @ 150°C, Poise	5.9	2-6

**Thin film oven test (TFOT) on Residue:**

Sl. No	Name of the test	Results	Requirement as per IS : 15462-2004
1	Loss in weight,%	0.05	Max. 1.0
2	Increase in softening point, °C	2.0	Max. 6.0
3	Elastic Recovery of half thread in Ductilometer at 25°C, %	64	Min. 35.0
4	Reduction in Penetration of residue @ 25°C, %	13.2	Min. 40
5	Specific gravity @ 25.0°C	1.056	Not Specified

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