

## BS6920 TEST ON EFFECT OF WATER QUALITY

### FINAL REPORT

**Organisation:** Sani-Tred Group-Europe, Middle East

**Product:** Permaflex AR with Sanitred LRB/TAV

**WRc-NSF REPORT No MAT/LAB 171M**

**Date of Report 17<sup>th</sup> July 2007, reissued with correction 25<sup>th</sup> July 2007**

WRC-NSF Final Report for the Testing of a Product to BS 6920	WRC-NSF Report No MAT/LAB 171M
Name of Organisation: Sani-Tred Group-Europe, Middle East	Date of Report 17/07/07 reissued with correction 25/07/07
Product: Permaflex AR with Sanitred LRB/TAV	

## 1. SUMMARY

Test	Result
Appearance of water	Pass
The extraction of substances that may be of concern to public health	Pass
Extraction of metals	Pass

This product has satisfied the criteria set out in BS6920 : Part 1 : 2000 "Specification" Clause 5, 7 and 8 for cold and hot water (85 °C) use.

*Mark Norris*

Mr Mark Norris, Materials Test Manager

Date *25th July 2007*

Please note the following statements
a) The samples of the product referred to in this report have been tested in accordance with the methods specified in BS6920: 2000 Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water.
b) This work has been undertaken in the UKAS accredited laboratory of WRC-NSF Ltd Oakdale, UKAS registration number 0626, unless otherwise stated. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
c) The results specified in this report relate only to the samples(s) of this product submitted for testing. Any changes in the nature or source of ingredients and the process of manufacturer or application could affect the suitability of this product for use in contact with potable water.

<i>WRc-NSF Final Report for the Testing of a Product to BS 6920</i>	<i>WRc-NSF Report No MAT/LAB 171M</i>
<i>Name of Organisation: Sani-Tred Group-Europe, Middle East</i>	<i>Date of Report 17/07/07 reissued with correction 25/07/07</i>
<i>Product: Permaflex AR with Sanitred LRB/TAV</i>	

## 2. SAMPLES FOR TESTING

BS6920, Section 2.1 and in-house method PROC/MAT 001.

Contact name: Mr Nick. C. Sampson
Name of organisation: Sani-Tred Europe, Middle East
Address: Achilleos 13 6030 Larnaca Cyprus

Product:	Permaflex AR with Sani-Tred LRB/TAV
Product manufacturer:	Ideal Products
Submitting organisation:	Sani-Tred Europe, Middle East

Date of receipt of product for test:	19/03/07
Trade name and reference of product:	Permaflex AR with Sani-Tred LRB/TAV
Batch number	Not known
General composition of product:	Polyurethane coating
Shore hardness:	Not applicable
Typical use of the product:	Water proofing Coating

Sampling procedure:	Random
Receipt conditions and packaging:	In good condition
Storage conditions:	As in BS 6920 Part 2 Section 2.1 Clause 5.2
Description/Appearance of the product:	Blue panel

<i>WRc-NSF Final Report for the Testing of a Product to BS 6920</i>	<i>WRc-NSF Report No MAT/LAB 171M</i>
<i>Name of Organisation: Sani-Tred Group-Europe, Middle East</i>	<i>Date of Report 17/07/07 reissued with correction 25/07/07</i>
<i>Product: Permafex AR with Sanitred LRB/TAV</i>	

Component name/reference:	Not applicable
Component manufacturer:	Not applicable
Fitting name/reference:	Not applicable
Fitting manufacturer:	Not applicable

Test sample preparation:	Glass plates to be coated were first degreased, the two-component permafex was then thoroughly mixed and allowed to dry overnight at 7°C. These panels were then degreased using a cloth to remove any oil on the surface. The LRB white and TAV blue were then thoroughly mixed (25% of TAV blue added to LRB white) to give an even blue colour with no traces of white and applied to the Permafex panels which were completely covered these panels were then allowed to cure at 7°C for 14 days before testing commenced.
Date test sample manufactured:	Not known
Date test sample prepared:	15/05/07

Surface area of one article:	7500 mm <sup>2</sup>
Number of articles constituting a sample:	Two
Surface area for test:	15000 mm <sup>2</sup>
Calibration mark of test container:	1 Litre

WRc-NSF Final Report for the Testing of a Product to BS 6920	WRc-NSF Report No MAT/LAB 171M
Name of Organisation: Sani-Tred Group-Europe, Middle East	Date of Report 17/07/07 reissued with correction 25/07/07
Product: Permaflex AR with Sanitred LRB/TAV	

### 3. APPEARANCE OF WATER

Methodology: BS6920, Section 2.3 and in-house methods PROC/MAT 004, ING 78 (colour) and ING 100 (turbidity).

#### Test results

Date leaching tests started: 29/05/07	Date leaching tests finished: 30/05/07
Temperature of extraction: 85 ±2 °C	

#### Colour

Extract	Date of test	Hazen units		Test sample effect
		Blank	Extract	
First	30/05/07	<2	<2	None
Final	-	-	-	-

#### Turbidity

Extract	Date of test	Formazine Nephelometric units		Test sample effect
		Blank	Extract	
First	30/05/07	<0.1	<0.1	None
Final	-	-	-	-

First extract becomes final extract

On the basis of these results the samples of this product referred to in this report have been found to comply with the requirements of BS6920, Part 1, Clause 5
--

WRc-NSF Final Report for the Testing of a Product to BS 6920	WRc-NSF Report No MAT/LAB 171M
Name of Organisation: Sani-Tred Group-Europe, Middle East	Date of Report 17/07/07 reissued with correction 25/07/07
Product: Permafex AR with Sanitred LRB/TAV	

#### 4. THE EXTRACTION OF SUBSTANCES THAT MAY BE OF CONCERN TO PUBLIC HEALTH

Methodology: BS6920, Section 2.5 in-house methods PROC/MAT 004 and PROC/MIC 004.

<u>Test set-up</u>	Date: 30/05/07
Cell line: VERO cell line of African green monkey kidney cells (ATCC number CCL 81).	
Media preparation date: 29/05/07	Passage number: 26
Cell concentration in sample: $5 \times 10^5$	Positive control: Zinc sulphate Bt 34
Morphology: Confluent growth of elongated cells, some round cells and cell debris. Media orange/pink in colour.	
Media log batch numbers	Medium concentrate (CCM): B84 Distilled water (SDW): B35

#### Test results

Date leaching tests started: 29/05/07	Date leaching tests finished: 30/05/07
Temperature of extraction: $85 \pm 2$ °C	

Cell Morphology	
Test Sample	Confluent growth of elongated cells, some round cells and cell debris. Media orange/pink in colour.
Blank	Confluent growth of elongated cells, some round cells and cell debris. Media orange/pink in colour.
Negative control	Confluent growth of elongated cells, some round cells and cell debris. Media orange/pink in colour.
Positive control	All cells rounded and mainly still in suspension. Media pink in colour.

On the basis of these results the samples of this product referred to in this report have been found to comply with the requirements of BS6920, Part 1, Clause 7

