

STATEMENT

Lauri Lintuvuori R&D, Interior Products BU Finland Kuninkaalantie 1 01301 VANTAA FINLAND

18.1.2013

SUITABILITY OF LUJA PAINT IN HOSPITALS

Tikkurila recommends Luja into hospitals due its excellent chemical resistance, abrasion resistance and hardness. In the tables of this document, Luja is compared to a conventional waterborne wall paint (WB wall paint) and a conventional solventborne alkyd paint (SB alkyd paint). The very best result is obtained when Luja Finishing paint is used together with Luja Primer.

Chemical resistance

The chemical resistance tests are done according to ISO 2812-1 standard. The paint film was dried for 7 days and it was exposed to different detergents and chemicals for 2 hours. Results were observed the following day.

Detergent / chemical	Luja	WB wall paint	SB alkyd paint
Alcaline detergent Klorilli,	excellent	satisfactory	poor
5000 ppm, pH12			
Ethanol 96%	excellent	poor	excellent
Alcaline detergent Alltop,	excellent	poor	satisfactory
dilution 5 ml/ 5 l water, pH 8			
Acidic detergent Supi Saunapesu,	excellent	poor	satisfactory
dilution 1:1, pH 1			
White spirit	excellent	poor	excellent
Detergent Andy 1,5%	excellent	satisfactory	excellent
Sterisol liquid soap	excellent	satisfactory	excellent

Abrasion resistance

The abrasion resistances are tested according to wet scrub resistance standard ISO 11998. According to ISO 11998 Luja is classified as class I which is the possible class. The test is generally used only for waterborne paints.

	Loss of film thickness in wet scrub test, µm	Class
Luja	1-2	1 (<5 μm)
Conventional WB wall paint	10-30	2 (5-20 μm)
		3 (20-70 μm)



Hardness

The König hardnesses of the paint films are measured according to the standard ISO 1522:2006.

Hardness after	Luja	WB wall paint	SB alkyd paint
1 day	23	11	11
7 days	27	16	25
14 days	33	19	37
28 days	35	21	44

Yours sincerely,

. 54

Lauri Lintuvuori Researcher Interior Products, BU Finland Tikkurila Oyj