NOMINAL THICKNESSES AND FLEXURAL STRENGTHS OF UNHEATED RETANOL® INDESTRA 100 CONCENTRATE SCREEDS ON INSULATION LAYERS, PIPE COVERINGS FOR HEATED RETANOL® INDESTRA 100 CONCENTRATE SCREEDS AS WELL AS RETANOL® INDESTRA 100 CONCENTRATE SCREEDS ON SEPARATING LAYERS FOR VERTICAL LIVE LOADS

NOMINAL SCREED THICKNESS (MM) SURFACE LOADS

	FLEXURAL STRENGTH CLASS	5,0 kN/m^2		7,5 kN/m^2		10 kN/m^2		15 kN/m^2	20 kN/m^2	>20 kN/m^2
	Insulation layer compressibility or insulation material type/ insulation material class/floor screed	c ≤ 3 mm[2]		Imp. sound absorp. c = ≤ 2 mm/ rigid foam at least 200 kPa		Imp. sound absorp. c = ≤ 2 mm/ rigid foam at least 200 kPa		Only screeds on separat. layer and bonded screeds	Only screeds on separat. layer and bonded screeds	Only bonded screeds
RETANOL® INDESTRA 100 CONCENTRATE 400 ml* 62,5 kg cement*	≥ F 6	45 mm[1] bonded screed from 35 mm[2]	floating, on separat. layer, bonded	60 mm[1] bonded screed from 35 mm[2]	floating, on separat. layer, bonded	75 mm[1] bonded screed from 35 mm[2]	floating, on separat. layer, bonded	/	/	/
RETANOL® INDESTRA 100 CONCENTRATE 400 ml* 75 kg cement*	≥ F 8	40 mm[1] bonded screed from 35 mm[2]	floating, on separat. layer, bonded	55 mm[1] bonded screed from 35 mm[2]	floating, on separat. layer, bonded	70 mm[1] bonded screed from 35 mm[2]	floating, on separat. layer, bonded	75 mm on separation layer from 35 mm[2] bonded	85 mm on separation layer from 35 mm[2] bonded	from 35 mm[2]
	INCREASE IN COMPRESSION STRENGTH	Compressive strengths of 60 N/mm^2 can be achieved with a dosage of 450 ml* and 70 N/mm^2 with a dosage of 500 ml*.								

(1) Nominal screed thicknesses refer to max. 8 cm insulation layer thickness

(2) Lower layer thicknesses for bonded screeds only after consultation with PCT Chemie GmbH

Mechanical compaction is essential for the specified layer thicknesses. For layer thicknesses of 70 mm and more, it is imperative to compact in layers --> for 80 to 90 mm two-layer compaction, > 100 mm three-layer compaction.

* The stated dosages of Retanol® Indestra 100 Concentrate and the cement quantities refer to standard screed pumps with a 250 litre mixing vessel (gross capacity) and a max. w/c ratio of 0.55.

This table is a guide for determining the required minimum nominal screed thicknesses based on the respective surface loads.

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