



TIKKURILA

# ISOPONDI

## SOLVENT-BORNE WATERPROOFING ROOF COATING

### DESCRIPTION

IsoPondi roof paint is a two-component aliphatic, brushable polyurea coating with excellent UV-resistance and waterproofing properties for granulated bitumen roofs. IsoPondi is CE-marked according to EN 1504-2:2004 and certified according to ETAG-005. IsoPondi also has an excellent solar reflective index (SRI). Thanks to the high SRI, IsoPondi reflects much of the incoming light, reducing the energy need for cooling buildings exposed to high levels of solar radiation.

### RECOMMENDED USES

Granulated bitumen and polyurethane roofs, especially suitable for flat roofs given IsoPondi's excellent ability to withstand ponding water.

### PRODUCT FEATURES

IsoPondi creates a waterproof coating with high SRI, excellent elongation at break and a long service life. Easy to apply, long pot-life and fast curing.



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<b>TECHNICAL DATA</b>	
<b>Colour Shades</b>	Available in three factory ready made shades: White - RAL 9003 Light grey - close to NCS S 1002-B50G Black - RAL 9005
<b>Solar reflectance index</b>	White - SRI = 109 Light grey - SRI = 85
<b>Coverage</b>	to be applied in the total amount of 1,2-1,8 kg per m2 (2 layers), depending on the substrate and application method.
<b>Can sizes</b>	13 kg
<b>Mixing ratio</b>	13 : 8 by weight, Tikkurila IsoPondi 13KG (component A) to mixed with IsoPondi Hardener 8KG (component B). The mixing ratio by volume is 1 (component A) : 1,19 (component B)
<b>Application method</b>	Brush, roller or airless spray.
<b>Pot-life (+23°C)</b>	100 minutes Lower temperature increases the pot-life to 140 minutes at 5degC. Higher temperature decreases the pot-life to 60 minutes at 35degC.
<b>Elongation at break</b>	400% +/-5% according to ASTM D 412
<b>Tensile strength</b>	11 N/mm according to ASTM D412
<b>Weight solids (%)</b>	86
<b>Hardness</b>	78 (shore A)
<b>Storage</b>	IsoPondi has a shelf life of 2 years (5-45°C) in sealed cans IsoPondi hardener has a shelf life of 1 year (5-35°C) in sealed cans For professional use only.

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.



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## APPLICATION INSTRUCTIONS

### Application conditions

Application conditions:

Residual moisture content: < 4%

Relative atmosphere moisture: <85%.

Ambient temperature: +5°C to +35°C.

Substrate temperature: +12°C to +35°C

Do not apply IsoPondi in direct sunlight

### Mixing components

First stir base and hardener separately. Mix the correct proportions of base and hardener thoroughly (approx. 2 minutes to get homogenous mixture) by using a low speed industrial hand drill with a paddle. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface, weaken the properties of the coating and risk the success of the application.

### Surface preparation

Unpainted surfaces:

The substrate has to be sufficiently dry and hardened before application of IsoPondi. Drying and hardening time is affected by the application conditions and layer thickness.

Clean the unpainted surfaces of any dirt, dust and salt. Surfaces with mold, moss etc. are cleaned with Tikkurila Iso A-clean in accordance with the instructions.

Previously painted surface:

Remove any flaking and poorly adhering paint coats. Clean the surfaces of dirt, dust and salt. Surfaces with mold, moss etc. are cleaned with Tikkurila Iso A-clean in accordance with the instructions. Select the removal method according to the strength of the substrate and paint type (e.g. wire brushing, pressure washing with hot water or wet sand-blasting).

Normally, IsoPondi is applied in 2 coats but can be applied in several coats. Consecutive coats are ideally applied after 24-48hrs or after 7 days. Avoid applying a consecutive coat on day 3-6.

Coating may be reinforced with non-woven polyester fleece, 100 - 120gr. In such cases, after the first layer of the coating is applied place the textile- at least two more coats are recommended for the complete coverage of the product.

Airelss spraying parameters:

Pressure at nozzle (minimum): 240 bar

Nozzle tip (inch): 0,027-0,033

Minimum output: 7L/min

Drying times depending on ambient temperature:

5°C- 24 hours

23°C - 18 hours

35°C - 12 hours

The total hardening of the film occurs in app. 7 days after the application of the final layer, depending also on the atmospheric conditions. During this period, it is advisable that the access to the application area is prohibited or limited to specialized personnel.

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It is recommended to annually inspect the coating for any damage caused by accidental impact or misuse. In case of need for local repairs, the coating is re-applied in its original dry film thickness, after cleaning and priming (if necessary) the affected area. Periodic cleaning by water-jetting is also advisable, in case of heavy accumulation of dirt, dust and pollutants on the surface, using also a neutral washing solution, if needed.

### **Cleaning of tools**

Clean tools and equipment with Tikkurila Thinner 1061.


### **Maintenance treatment**

Surfaces painted with IsoPondi can be maintenance painted with the same system.

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## EN 1504-2:2004

The European harmonized productstandard EN 1504-2:2004 defines the requirements for surface protection systems for concrete. This product is tested and CE-labelled in accordance with the tables 1d and 1f in the appendix ZA.

	
1922	
Tikkurila Oyj Heidehofintie 2 FI-01300 Vantaa	
20	
TIK-A048-2020	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO <sub>2</sub>	s <sub>D</sub> > 50 m
Capillary absorption	w < 0.1 kg/m <sup>2</sup> • h <sub>0,5</sub>
Reaction to fire	E (NPD)
Adhesion strength by pull off test	≥ 1.5 N/mm <sup>2</sup>
Release of dangerous substances	NPD
Permeability to water vapour	class II, 5 m < s <sub>D</sub> < 50 m

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