

## TECHNICAL DATA SHEET

# ISONEM DF 9

(Acrylic Based Wet Room Waterproofing)

### Product Description

DF 9 ACRYLIC BASED WET ROOM WATERPROOFING, it is an elastomeric resin based, solvent free, one component acrylic polymer based waterproofing material. It dries on the applied surface and forms a seamless, waterproof and elastic coating. The coating is resistant to high mechanical strength. Tile, ceramic and similar coating should be bonded with a suitable adhesive on the ISONEM DF 9 which high crack bridging capacity.

### Usage Areas

- In wet volumes
- Bathroom-shower-rest room
- Terrace and balconies
- Can be used indoors and outdoors in any kitchen and similar wet areas

### Technical Specifications

Density (25°C, g/mL)	: 1,38 ± 0,10
pH (25°C)	: 7.0 – 9.0
Viscosity (25°C, mPa.s)	: 9000 - 12000
Solid content (% Weight)	: 71 ± 2
Water transmission rate (kg/ m <sup>2</sup> . h <sup>0.5</sup> )	: < 0,1 CLASS W <sub>3</sub>
Adhesion strength by pull-off test (N/mm <sup>2</sup> )	: Crack bridging flexible systems without trafficking ≥ 0.8, with trafficking 1.5 N/mm <sup>2</sup>
Permeability to water vapour (m)	: 5 ≤ S <sub>D</sub> ≤ 50 CLASS II
Touch-free Drying	: 4 hours
Through-dry time	: 24 hours
Pot life (23°C)	: X
Solvent	: Water
Class of fire reaction	: B S1 d0
Color	: Blue, white or grey

### Application Procedure

**Surface preparation:** Application surfaces should be dry and clean. Surface repair and similar pre-insulation should be done before application. 45 g/m<sup>2</sup> insulation mesh should be used on wall and base joints. If there are residues prevent adherence like dust, dirt etc. on the application surface, they should be cleaned and the insulation and paint primer ISONEM UNIVERSAL PRIMER should be applied to the surface (1: 7 diluted with water; 1 part primer, 7 parts water). The primer application should be after a minimum drying time of 4 hours.

**Application method:** ISONEM DF 9 is ready to use but must be mixed well before use. ISONEM DF 9 is applied by brush in two layers without dilution waiting 4 hours between coats. The insulation application should be protected from water for 24 hours. Do not apply below + 5°C or wet and frozen floors.

## Application Conditions / Limitations

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<b><u>Application</u></b>	: In perpendicular to each layers
<b><u>Surface humidity</u></b>	: Dry surface
<b><u>Primer usage</u></b>	: <b>For concrete, marble, granite, raw wood, tile, ceramic, etc. surfaces:</b> ISONEM UNIVERSAL PRIMER (diluted).
<b><u>Primer consumption</u></b>	: 100 - 200 g/m <sup>2</sup>
<b><u>Product usage</u></b>	: 2 layers
<b><u>Product consumption</u></b>	: 1 kg/m <sup>2</sup> (two layers application)
<b><u>Paintable (Coverage) Area</u></b>	: <b>5 kg:</b> min. 5 m <sup>2</sup> /bucket (two layers application) <b>18 kg:</b> min. 18 m <sup>2</sup> /bucket (two layers application)
<b><u>Between two coats</u></b>	: 4 hours
<b><u>Recommended application tools</u></b>	: Roller (synthetic epoxy), brush
<b><u>Application temperature (°C)</u></b>	: 18 - 40 °C (Summer application) 5 - 17 °C (Winter application)

**Things to consider during and after the application:** There should not be exposed to ponding, snow should not accumulate and also the surface should be inclined.

**Other ISONEM products recommended:** In primer application, it should be used ISONEM UNIVERSAL PRIMER.

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## IMPORTANT

The surface should be protected from rain, water, mechanical loads and impacts for 24 hours during and after the application. Depending on the climatic conditions and air temperature, you must supply the product as summer or winter.

## Packaging & Storage

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<b><u>Packaging</u></b>	: 5 kg and 18 kg PP in buckets
<b><u>Storage temperature (°C)</u></b>	: 5 - 35 °C
<b><u>Shelf life</u></b>	: 24 months from date of production if stored in original, unopened, undamaged packages.
<b><u>Storage condition</u></b>	: Store tightly closed in a dry and cool place.


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## Cleaning of Tools

Clean all tools and application equipment with clean water immediately after use.

## Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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<b>Isonem Paint and Insulation Technologies Construction Industry Trade Inc. - 35470/İZMİR İTOB OSB 10001 Sok. No:20 Tekeli Menderes / İzmir - TURKEY 19</b>		
<b>2765-CPR-0135 TS EN 1504-2: Surface protection systems for concrete - Coating (DF 9) DoP No: 12</b>		
	<b>STANDARD VALUE</b>	<b>CONTROL VALUE</b>
<b>Permeability to water vapour</b>	Class I $S_D < 5$ m (permeable to water vapour) Class II $5 \text{ m} \leq S_D \leq 50$ m Class III $S_D > 50$ m (not permeable to water)	Class II - 40 m
<b>Capillary absorption and permeability to water</b>	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$	$0,02 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
<b>Adhesion strength by pull-off test</b>	Without trafficking $\geq 0,8 \text{ N/mm}^2$ With trafficking $\geq 1,5 \text{ N/mm}^2$	Crack bridging flexible systems without trafficking $0,8 \text{ N/mm}^2$ with trafficking $1,5 \text{ N/mm}^2$
Dangerous substances comply with 5.4		
Class of fire reaction: B S1 d0		

### Statement of Responsibility

The technical information and application advice given in this ISONEM Paint & Insulation Technologies publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

