

# ISONEM<sup>®</sup> MS POLYMER



## MS Polymer

**ISONEM MS POLYMERS** is a one part, solvent-free, pure acrylic-based special waterproofing polymer produced by the latest technology. It is ready to use, UV resistant, bright, hard elastic and walkable. It is not affected by pedestrian and vehicle traffic and chemicals. It is used as an insulation material on terraces, roofs, balconies and wet rooms, industrial floors, concrete, alum, plaster, wood surfaces, spray polyurethane applied surfaces, sidings and foundation walls. As it dries too fast, it is easy to work and quick. Very economical due to its low consumption.

**USES:** •Insulations of roof terrace and balconies •Insulations of wet room and foundation walls •Floors of factory and depot •Park and walk ways •Water lakes, terraces and roofs •In all kinds of poor subsoils •In exteriors •In metal roofs, woods •On bituminous problematic insulations •On asphalt and concrete surfaces Easily applied as a waterproofing agent for roofs and balconies, canals, chimney surroundings, gutters and strainers in wide area and detailed, flat or inclined roofs.

**CHARACTERISTICS /ADVANTAGES:** •Ready to use •Low labour cost •Remains flexible at low temperatures •Permits water vapour to the surface •Can be thinned with water, solvent-free •Can be painted with acrylic based paints •Can be coloured with water based pasty pigments •UV resistant •Not affected by pedestrian •Does not require protective alum or concrete •Non- flammable

**TECHNICAL PROPERTIES:** •Form: Appearance / Colour; Liquid / clear, white, or in any colour. •Chemical Base: Acrylic based liquid •Density: 1.06±0.05 kg/dm<sup>3</sup>, +20°C •pH: 6 - 9 •Solids Content: % 52±3, 105°C •Elongation at Break: Min. % 250 (for 1 mm thickness, at +20°C, after 72 hrs) •Application Temperature: +5°C- +35°C •Interval between each application: approx. 4 hours

### APPLICATION PROCEDURE:

**SUBSTRATE QUALITY / PREPARATION:** •Substrate must be clean, uniform, dry, free of dust, oil or grease and loose or weak particles •Plastered and concrete surfaces should be cleaned with 1:10 **ISONEM UNI-CLEAN**: water solution. Rinse the surface with clean water afterwards •Surface defects and voids should be repaired with ISONEM M 03 repair mortar •Steel surfaces should be painted with suitable anti-corrosion material before application.

**ISONEM MS POLYMERS**, diluted to 200%, should be used as a primer on surfaces like eternit, foamed blocks, brick, tile, masonry, concrete and plaster.

**APPLICATION CONDITIONS / LIMITATIONS:** •Substrate Temperature min. +5°C, max. +35°C •Ambient Temperature min. +5°C, max. +35°C

### APPLICATION INSTRUCTIONS:

**APPLICATION METHOD / TOOLS:** Application can be done by brush, roller, or spray gun. First layer should be applied in one direction only and following layer to be perpendicular to the previous one.

**WAITING TIME/OVERCOATING:** Waiting time depends on the ambient temperature, substrate temperature, relative humidity and the thickness of coating applied. Before applying the second layer, make sure that the first layer is totally cured and dry. Wait 4 hours (at 23°C and %50 relative humidity).

**NOTES ON APPLICATION/LIMITATIONS:** •This product is not generally suitable on its own for waterproofing against hydrostatic pressure. •It is recommended to reinforce the vertical and horizontal joints of excessively cracked surfaces by using geotextile protection layer. •Freshly applied material should be protected from rain and/or frost for 24 hours. •**ISONEM MS POLYMERS** should not be applied during rain, fog and temperatures below +5°C.

**CURING DETAILS:** **ISONEM MS POLYMERS** is applied at 23°C: •Achieves its mechanical strength after three days •Becomes fully waterproof after almost five days •Reaches its final strength values after seven days •At low temperatures, above mentioned durations can be longer

All the afore-mentioned times refer to +23°C and 50% relative humidity. Higher temperatures and lower humidity rates quicken, whereas lower temperatures and higher humidity rates slow down the drying process.

**CONSUMPTION:** For transparent applications on ceramic, tile etc surfaces approx. 150 gr/m<sup>2</sup>, on concrete, alum and plaster surfaces approx. 500 gr/m<sup>2</sup>

**PACKAGING:** 5,10,18 kg plastic pails

**STORAGE CONDITIONS/SHELF LIFE:** 12 months from date of production if stored properly in unopened and undamaged original sealed containers at temperatures between +5°C to +35°C at dry conditions. Protect from excessive temperature and frost.

**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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.



The information contained in this leaflet has been prepared to our best knowledge, and in consistency with the results of our experiments and experience, and are the products of our know-how based on our accumulation of decades. However, the application of our products accurately and successfully, is entirely beyond our control and responsibility. Therefore, the scope of our liability is limited to the quality of our products and this technical leaflet supercedes all the previous technical leaflets and all the explanations and the information contained in the product labels.

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"Our Products do not Fall Under the Regulations Regarding Biocidal Products."