

ISONEM® BE 90



Elastic, One-Part, Liquid Membrane

ISONEM BE 90 is a one-part, solvent-free, ready for use, elastomeric acrylic resin based waterproofing product. Once applied to the substrate, it cures to a highly flexible, waterproof coating which is highly elastic and crack-bridging and forms an excellent seam-and jointless waterproofing layer. The product has high mechanical resistance and crack-bridging capacity and open to vapour diffusion.

USES: 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. It fits to all types of structures and does not form cold joints

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 (min 1 mm thickness)

TECHNICAL PROPERTIES: •Form: Appearance / Colour Liquid / white •Chemical Base: Acrylic copolymer based liquid •Density: 1.45 kg/dm³, +20°C •Solids Content: % 70, 105°C •Elongation at Break: Min. % 250 (for 1 mm thickness, at +20°C, after 24 hrs) •Application Thickness: Optimum layer thickness is 1mm. Can be applied in 2-3 layers •Application Temperature: +5°C - +35°C •Colour: White, or in any colour •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 BE 90, diluted to 10%, 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. •Applications to be exposed to direct sunlight, should be at least 1 mm thick. •ISONEM BE 90 should not be applied during rain, fog and temperatures below +5°C.

CURING DETAILS: ISONEM BE 90 is applied at 23°C: •Achieves its mechanical strength after five days •Becomes fully waterproof after almost seven days •Reaches its final strength values after fourteen days •At low temperatures, above mentioned durations can be longer •A protective coating should be applied over ISONEM BE 90 on surfaces subjected to pedestrian traffic, mechanical impact or wear and tear 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: 1 kg/m² (primer + 2 layers)

PACKAGING: 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 safetyrelated data.



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