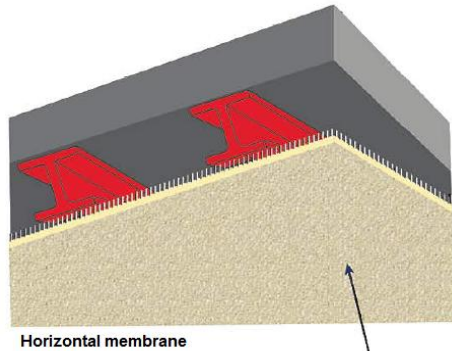


## Field of application

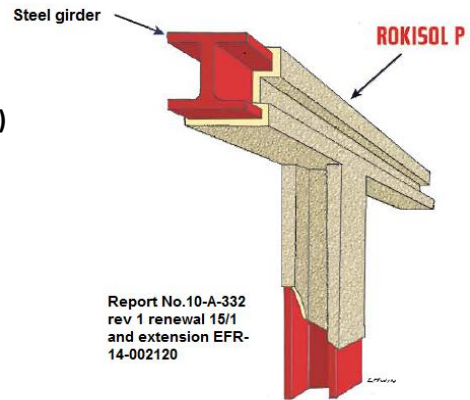


**Fire protection**  
(concrete and metallic structures and horizontal membranes)

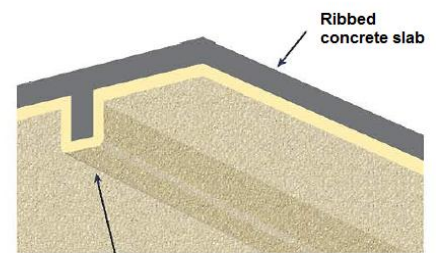


Horizontal membrane

**ROKISOL P**  
Report No.EFR-14-U-003329  
rev 1 and lab evaluation  
No.EFR-16-001080



Report No.10-A-332  
rev 1 renewal 15/1  
and extension EFR-14-002120



Ribbed concrete slab

**ROKISOL P**  
Report No.10-A-460  
renewal 15/1 and  
extension EFR-14-002120

## Definition

ROKISOL P is a paste-like premixed product consisting of vermiculite, plaster and additives.

Applied wet by direct spraying onto the surface requiring protection (after the creation of a bonding bridge using our primer ISOFIX TS), it is designed to provide passive protection against fire affecting concrete and metallic structures.

ROKISOL P may be applied under a membrane created with an attachment mesh.

## Technical characteristics

<b>Thickness</b>	between 9.5 and 65.6 mm depending on the surface
<b>Surfaces</b>	Concrete: flat and ribbed slabs, prestressed concrete, girders, rectangular pillars. Metallic structures: girders, pillars. Horizontal membranes
<b>Volumetric mass</b>	375 kg/m <sup>3</sup>
<b>Ph</b>	around 9
<b>Colour</b>	off-white
<b>Finish</b>	roughened
<b>Fire reaction report</b>	A1 French National Laboratory for Metrology and Testing (LNE) no. P131497-6
<b>Safety</b>	FDS (safety data sheet) available

## Advantages / Properties

- Non-toxic, rot-proof, vermin- and rodent-resistant, does not favour mould growth or the development of fungi
- No emission of toxic or dangerous gases in case of fire
- Chemically inert, displays a slightly alkaline reaction in contact with water
- Easy application in one go
- Excellent mechanical resistance

Example for a reinforced concrete slab, thickness $\geq 12$ cm and a reinforced concrete girder, thickness $\geq 15$ cm, steel coatings <math>u > = 10 mm		Length of exposure REI				
		60	90	120	180	240
Concrete slab	thickness ROKISOL P (mm)	15	15	15	20	25
Concrete girder	thickness ROKISOL P (mm)	15	20	25	35	40

EXAMPLE SHOWING THICKNESSES IN MM OF ROKISOL P ON DIFFERENT METALLIC PROFILES						
TYPE OF IRON	PROFILE FACTOR ( $m^{-1}$ )		R60		R120	
	4 sides	3 sides	Pillars Critical temp. = 500°C 4 sides	Girders Critical temp. = 570°C 3 sides	Pillars Critical temp. = 500°C 4 sides	Girders Critical temp. = 570°C 3 sides
IPE 200	269,5	234,4	26 mm	24 mm	43 mm	39 mm
IPE 400	174,0	152,7	23 mm	20 mm	36 mm	30 mm
IPN 200	211,6	184,8	25 mm	23 mm	39 mm	35 mm
IPN 400	112,7	99,6	19 mm	16 mm	29 mm	26 mm
HEA 100	265,1	217,9	26 mm	24 mm	43 mm	38 mm
HEA 200	211,9	174,7	25 mm	22 mm	39 mm	34 mm
HEA 400	120,1	101,3	20 mm	16 mm	30 mm	26 mm
HEB 100	218,1	179,6	25 mm	22 mm	40 mm	34 mm
HEB 200	147,2	121,6	22 mm	18 mm	34 mm	28 mm
HEB 400	97,6	82,4	18 mm	13 mm	28 mm	25 mm

## Application

- Complies with DTU 27.2 (AFNOR Standard P15-203-1) and with our test reports
- Applied wet, with a mortar or plaster spray machine
- Applied as a paste after mixing the product with water on undamaged and dry surfaces
- Ambient air temperature and temperature of surface  $> 5^{\circ}C$  and  $< 45^{\circ}C$
- Drying time: between 2 and 10 days in ventilated rooms (initial setting time between 12 and 24 hr, hydraulic setting)
- Bonding primers: ISOFIX TS (200 to 300 kg/m<sup>2</sup>)
- Only for interior use (Z2)

## Appearance / Storage

- Ready-to-use product
- Packed in 20 kg polyethylene bags on shrink-wrapped wooden pallets
- Pallets measuring 0.80 x 1.20 m, 10 rows of 3 bags, i.e. 30 bags or 600 kg/pallet
- Bags and pallets marked for traceability
- Maximum storage period: 8 months protected from moisture and adverse weather