

ROMPUR® 2705 PUR Coating

Solvent free, pigmented, self-levelling, 2 component polyurethane system.

Areas of application:

ROMPUR® 2705 is used as a high quality coating system in the following areas: industrial floors, storage rooms, garages, the car industry, loading ramps, ship decks etc. ROMPUR® 2705 is permanently resistant to sweet water, saltwater and household cleaning agents. Also resistant to spills of acids, lyes, petrol and heavy oils.

1. Technical data for liquid components

1.1 Technical data:

System:	2 component PUR system with aromatic isocyanate		
Density at 23°C:	1,40	g/cm ³	DIN EN ISO 2811-1
Viscosity:	3.000	mPas	DIN 53019
Waste disposal key comp. A	08 01 11		acc. to AVV
Waste disposal key comp. B	08 05 11		acc. to AVV
Waste disposal key comp. AB	08 01 12	hardened form	acc. to AVV

1.2 Delivery form:

Two component 30 kg containers

Components A and B are supplied in a ready to use mixing ratio. Delivery of larger or smaller containers on request

1.3 Storage:

Can be stored for at least 12 months in unopened containers, in cool, dry, frostfree rooms. Temperatures below +10°C and over +35°C should be avoided. After opening, the containers should be used up as soon as possible. Protect contents against moisture. Before use, the material needs to be brought up to ambient temperature

2. Technical data for application

2.1 Surface requirements before application:

The surface must be even, dry and free of oil, grease and dust. Loose particles and other dirt must be removed. In most cases, the surface should be shotpeened. In some cases it may be necessary to carry out grinding or milling. The minimum adhesion strength of the surface needs to be > 1,5 N/mm². Residual moisture of the concrete must be ≤ 4 CM%, with anhydrite bound surfaces <0,5 CM%, heated <0,3 CM-% (i.e. CM machine). Cement surfaces with a high residual moisture ≤ 6 CM% must be treated with ROMPOX® 1506, for higher residual moisture > 6 CM% surface should be treated with ROMPOX® 1504. It is necessary that after priming, all pores need to be sealed. Highly porous surfaces need to be primed twice! Metal surfaces should be treated according to the Swedish norm SA 2 ½ and then primed with ROMPOX® 1101.

Due to the numerous variations in surfaces – especially with old coatings – we recommend that a sample coating is laid, in order to eliminate any reactions that cannot be calculated in advance.

2.2 Technical data for application:

Mixing ratio:	A : B	4 : 1	weight parts
Application time at:	10°C:	70	mins. ROMEX® NORM 04
	20°C:	40	mins. ROMEX® NORM 04
	30°C:	20	mins. ROMEX® NORM 04
Pot time at:	23°C:	40	mins. ROMEX® NORM 04

Page 2 of Technical Specifications ROMPUR® 2705 – PUR Coating

Min. hardening temperature:	+5 °C (floor and room temperature)
Application temperature:	15-30 °C (floor and room temperature)
Dewpoint distance:	min. 3 °C
Air humidity:	max. 75% rel. humidity

Please note: The times mentioned in item 2.2 are approximations and will vary with differing ambient conditions.

2.3 Application instructions:

Component B (hardener) is poured completely into component A (resin) and mixed homogenously for 3-5 minutes using a slow rotating mixer (approx. 300 rpm, diameter of whisk approx. 1/3 of the diameter of the container). In case of using part measurements, these need to be weighed exactly using an electronic scale according to the stated mixing ratio. Mix only the quantity that can be used within the pot time. Do not use straight from the delivery container! After mixing, pour into a clean container and stir again. ROMPUR® 2705 can be applied using a notched trowel. For better aereation use a plastic pinfeed platen crosswise.

Please note: If there is a risk of rising damp from the surface, then to prevent osmosis, ROMPOX® 1506 or 1504 should be applied as primer with at least 0,300 kg/m² completely so that all pores are sealed.

In case of surface and material temperatures below +15°C, levelling and surface faults can occur!

2.4 Application examples:

Work process	ROMEX® Product	Consumption	Application
2.4 PU coating approx. 1,3 mm			
1 on cement bound surface			
.1 Surface preparation			See item 2.1
.2 Primer	ROMPOX® 1505 Standard primer	min. 0,3 kg/m²	Flooding using rubber squeegee and then with rollers
(If required) scraping filler	layer thickness of 1mm each 1 wp ROMPOX® 1505 1 wp firedried quartz sand Ø 0,1-0,3 mm	min. 0,8 kg/m ² min. 0,8 kg/m ²	With 1 lip hard rubber squeegee or smoothing trowel, smooth well.
Sprinkling if required *	Firedried quartz sand with Ø 0,1-0,5 mm	approx. 0,5 kg/m	Sprinkle
.3 Coating	ROMPUR® 2705 Coating	min. 1,7 kg/m²	Apply with smoothing trowel or notched squeegee then aereate with metal pinfeed platen.

2.5 Cleaning:

Each time work is interrupted, clean all tools and equipment with a general solvent (i.e. ethanol, white spirits).

3. Technical data for application

3.1 Technical data:

Re-application at:	23°C	8	min./ max. hrs.	ROMEX® NORM 07
Can be walked on at:	23°C	after 24	hrs.	ROMEX® NORM 07
Fully hardened at	23°C	after 7	days	ROMEX® NORM 07
Compressive strength:		55	N/mm ²	DIN EN 1015-11
Bending tensile strength:		35	N/mm ²	DIN EN 1015-11

Page 3 of Technical Specifications ROMPUR® 2705 – PUR Coating

Temperature resistance:	dry warmth	up to +50 °C up to +80 °C (shortterm)	ROMEX® NORM 07
	damp warmth and hot water	up to +40 °C	ROMEX® NORM 07
Shore-D-hardness:		60-65 N/mm ²	DIN 53505
Abrasion (Taber Abraser)		<30 mg	DIN EN ISO 438-2

3.2 Properties of hardened coating:

- Good compressive strength
- Good abrasion resistance
- Very good self-levelling properties
- Solvent free
- Excellent aeration
- Good chemical resistance, (see chemical resistance list ROMPUR® 2705)
- Many standard colours and light colours available. Special colours on request.

Note: If possible, always use material from the same production batch, especially on visible surfaces, as material from different production batches, may have slightly differing colour nuances. Hardened, liquid plastics are subjected to environmental factors i.e. UV rays and can thus change visually after hardening (i.e. yellowing, loss of gloss, white discolouration). The functioning of the industrial floor is not affected by this and does not constitute a fault. The colours shown on the ROMEX® standard paintchart are approximate. Slight deviations compared to the RAL colours are of a technical nature and do not constitute a fault. Exact matching with RAL colours cannot be guaranteed.

4. Safety instructions

The products contain reactive materials and are partly hazardous to health in a non-hardened state. The hardener components can cause burns due to high alkali content. It can also cause irritation or skin sensitization. Avoid skin contact. If the product does get onto the skin, wash well with soap and water. If the product gets into the eyes, rinse well with water and seek medical treatment. For further information please consult the information sheet on reactive resins and polyesters provided by the professional association of the chemical industry. Exact details on the handling of this Product can be found in the safety data sheet for ROMPOX® 2705, comp. A and B.

5. Important instructions: CE identification

DIN EN 13 813 "Screed mortars, screed mass and screeds – properties and requirements" (Jan. 2003) sets out requirements for screed mortars that are used for floor construction in interior rooms. Synthetic resin coatings and sealants are also included in this norm. Products that are in accord with the aforementioned norm are to be given the CE identification mark.

Page 4 of Technical Specifications ROMPUR® 2705 – PUR Coating

CE	
ROMEX® AG • Weidesheimer Str. 17 • D - 53881 Euskirchen	
07 ¹⁾	
EN 13813 SR-B1,5-AR1-IR 4	
Synthetic resin screed/coating for interior use in buildings (application according to technical specifications)	
Effects when burned:	E _{fl}
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD ³⁾
Abrasion Resistance:	AR 5 ⁴⁾
Adhesion strength (Bond):	B 1,5
Impact Resistance:	IR 4
Impact noise insulation:	NPD ³⁾
Noise absorption:	NPD ³⁾
Thermal insulation:	NPD ³⁾
Chemical resistance:	NPD ³⁾

- 1) the last two numbers of the year in which the CE identification was attached
- 2) in Germany DIN 4102 is still valid; fire class B2 is fulfilled
- 3) NPD = No Performance Determined
- 4) applies to the smooth, non sprinkled coating

NOTES:

Our recommendations, which are given to assist buyers & end users, are based on our experience and correspond to the current levels of knowledge in science and practice, however they are not binding and have no legal force. It is recommended adapting methods and quantities of product to the local needs. If necessary a sample surface should be laid beforehand.

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The aforementioned information and instructions for application are based on our experience. Due to the numerous types of surface, application methods and physical conditions when using our materials, the information contained in these technical specifications cannot be used to make any legal claims with regard to the guarantee for the results when working with this product. The user himself is solely responsible for the results and must test the suitability of the materials. We reserve the right to make changes to the technical specifications. Only the newest version of the technical specifications is valid and this can be downloaded at www.romex-mb.de or requested from us in writing.