

ROMEX PROFI-DEKO – RUGGED RESIN-BOUND SOLUTION FOR CLEAR AGGREGATES

Daltile Xteriors - Master Guide Specification

07 00 00 – Thermal and Moisture Protection	32 16 13.13 – Cast-In-Place Concrete Curbs and Gutters
32 14 00 – Unit Paving	32 16 13.16 – Steel Faced Curbs
32 14 13 – Precast Concrete Unit Paving	32 16 13.23 – Precast Concrete Curbs and Gutters
32 14 13.13 – Interlocking Precast Concrete Unit Paving	32 16 13.33 – Asphalt Curbs
32 14 13.16 – Precast Concrete Unit Paving Slabs	32 16 13.43 – Stone Curbs
32 14 13.19 – Porous Precast Concrete Unit Paving	32 16 23 – Sidewalks
32 14 16 – Brick Unit Paving	32 16 33 – Driveways
32 14 26 – Wood Paving	32 17 26 – Tactile Warning Surfacing
32 14 33 – Plastic Paving	32 94 00 – Planting Accessories
32 14 33.13 – Permeable Plastic Paving	32 94 13 – Landscape Edging
32 14 40 – Stone Paving	32 94 19 – Landscape Surfacing
32 14 43 – Porous Unit Paving	32 94 43 – Tree Grates
32 15 40 – Crushed Stone Surfacing	32 94 46 – Tree Grids
32 16 00 – Curbs, Gutters, Sidewalks, and Driveways	
32 16 13 – Curbs and Gutters	

PART 1 – GENERAL

1.1 SUMMARY

- 1.1.1 This specification describes the application of Decorative Grit & Gravel Hardener. This will include any test standards that are applicable to Rompox Deko-Pro or applicable to grit and gravel hardener in general.

1.2 QUALITY ASSURANCE

- 1.2.1 Manufacturing qualifications: The manufacture of the product shall be ISO 9001 certified and obtain a good ongoing quality assurance program.
- 1.2.2 Contractor Qualifications: Contractor should be qualified in the field of hardscape with a successful track record. The contractor should have qualified personnel that are trained in Romex products by a Romex representative.
- 1.2.3 Install materials in accordance with all environmental conditions required by the manufacture. All products installed should be installed under the safety conditions set forth by the manufacture or as modified by the applicable rules and regulations of the local, provincial, and federal authorities having jurisdiction. Consult safety data sheets for all handling recommendations.

1.3 DELIVERY, STORAGE, AND HANDLING

- 1.3.1 All materials must be delivered in original, unopened containers with the manufactures name, labels, product identification, and batch numbers. Damaged material must be documented, reported to Romex Canada and removed from site.
- 1.3.2 Store all materials off the ground and avoid excessive heat, rain, or freezing temperatures until ready for use.

1.4 JOB CONDITIONS

- 1.4.1 Site Conditions: The foundation needs to be prepared according to the expected traffic loads. Superstructure and substructure must be water permeable. Future loads must not cause the surface to settle or loosen stones. Regulations and leaflets regarding construction of paved stone surfaces should be heeded. Future loads must not cause the surface to settle or loosen stones.
- 1.4.2 Environmental Conditions: Do not apply if the if the surface below 5° or over 30° Celsius. Ideally, you would use ROMEX® Trass-Bed products. For optimum application it is recommended using ROMEX® application tools. Product should not be applied in rain.
- 1.4.3 Protection: Precautions should be taken to protect surrounding surfaces that are not to receive the product.

1.5 SUBMITTALS

- 1.5.1 Submit two (2) copies of the manufacturer's literature. This includes a Product Data Sheet (PDS) and a Safety Data Sheet (SDS).

1.6 WARRANTY

- 1.6.1 Provide a written warranty from the manufacture against defects of materials for a period of (X year(s), This begins at the date of substantial completion of the project.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- 2.1.1 ROMEX® Rompox Deko-Pro/Profi-Deko as manufactured by Romex AG, Mühlgrabenstraße 21, 53340 Meckenheim, Germany is considered to conform to the requirements of this specification.

2.2 MATERIALS

- 2.2.1 55 - 68 kg | 120 – 150 lbs of clean and dry gravel / grit
- 2.2.2 ROMEX® Rompox Deko-Pro/Profi-Deko two-component epoxy resin grit and gravel hardener.

2.3 PERFORMANCE CRITERIA

Test report no. 53-1607/12 CPH-13478 (Technical data is dependent on used grit/gravel)		
System	2-component epoxy resin pavement jointing mortar	
Compressive strength	13.9 N/mm2 2 016 psi Building site value	DIN 18555 part 3
Bending tensile strength	4.8 N/mm2 696 psi Building site value	DIN 18555 part 3
Hard mortar raw density	1.58 kg/dm3 0.91 oz/in3 Building site value	DIN 18555 part 3
Application time at 20 °C 68 °F	20–30 minutes	ROMEX®-norm 04
Application temperature	> 0 °C up to max. 30 °C > 32 °F up to max. 86 °F At lower temperatures slow hardening, at high temperatures quick hardening	
Re-opening of surface at 20 °C 68 °F	After 24 hours can be walked on, after 6 days fully load bearing	
Water permeability	Very high permeable depending on grain size	
Storage life	24 months, frost free, dry	

PART 3 – EXECUTION

3.1 INSPECTION

- 3.1.1 The surface to be strengthened should be prepared to a depth of the minimum:

Load requirement	Romex Deko-Pro Depth
Pedestrian	38mm / 1 ½"
Light Vehicular	50mm / 2" of granular/fines
(Limit of 3 Tons – Residential)	50mm / 2"
Heavy Vehicular (Limit of 7.5 Tons)	76mm / 3"

The subsurface should be firm. Adjoining surfaces that are not to be strengthened must be protected / taped off to avoid resin film staining. Dusty, dirty gravel /grit must be washed and fully dried; if moisture/dampness are present then there may be a reduction in bonding strength. Adjoining surfaces that are not to be joint-fixed are taped off. Application of the materials constitutes an acceptance of the site, surface, and environmental conditions at the time of application.

- 3.1.2 Temperature readings of the ambient and substrate must be taken and recorded before and during application.
- 3.1.3 Do not apply the ROMEX® Rompox Drain if the temperature is below 5°C (41°F)
- 3.1.4 Gravel to be bound must be cleaned and free of contaminants.

3.2 SURFACE PREPARATION

- 3.2.1 All joints must be cleared of any all debris. Surface of pavers must be washed and cleaned of any impurities.
- 3.2.2 Contractor is to complete the "Contractor Pre-Install Site Checklist" supplied by Romex.
- 3.2.3 Areas or walls adjacent to where the paving will be grouted must be protected / taped off to prevent the jointing mortar leaving a visible resin film on their surface.
- 3.2.4 The base layer of ¾" crushed gravel should be prepared to a depth of the minimum:

Load requirement	Romex Deko-Pro Depth
Pedestrian	100mm – 150mm / 4" - 6"
Light Vehicular	150mm – 250mm / 6"-10"

3.3 MIXING

- 3.3.1 In a gravity mixer, start the mixer at an angle and pour in 55 kg – 68 kg / 120 lbs – 150 lbs of clean and dry gravel / grit.
- 3.3.2 Remove the lids from both bottles and empty them into the mixer.
- 3.3.3 Mix for three (5) minutes.
- 3.3.4 While it's mixing, rinse both bottles with clean water return lids and recycle.
- 3.3.5 Romex Rompox Deko-pro/Profi-Deko is now ready for installation.

3.4 APPLICATION

- 3.4.1 Pour the mixture onto the prepared surface, if necessary, pre-distribute using a shovel and then use a levelling batten (use a gauge) to create specified layer thickness.
- 3.4.2 Compact the mixture using a light vibratory plate or a smoothing trowel and make the surface smooth. Good compacting is vital, to ensure the longevity of the end product.
- 3.4.3 The freshly strengthened surface should be protected against rain for 24 hours. The rain protection should not be laid directly onto the surface to allow air to circulate.
- 3.4.4 Surfaces subjected to heavy loads (i.e. tree pits / grates in public areas) should be laid using a surface depth of at least 5 cm | 2". Immediately after the surface has hardened, Rompox Deko-Pro/Profi-Deko should be applied mixed but undiluted to the surface as a sealant using a brush or fur roller. This results in an even better surface strength.

3.5 MOCKUP

- 3.5.1 A job site mockup should always be performed to ensure that the product or system conforms to the aesthetic, that material coverage rates are known, and methods and workmanship are understood.
- 3.5.2 Adhere to all the product limitations and cautions outlined by the manufacture.

3.6 CLEAN UP

- 3.6.1 Clean tools with water and brush after application
- 3.6.2 If material has hardened, the use of Romex – Power Clean may be needed.

END OF SECTION

All content provided by Romex North America concerning Romex products, including but not limited to, any recommendations and advice relating to the application and use of Romex products, is given in good faith based on Romex's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Romex's instructions. It is typical to have differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Romex's control.

Because of this Romex assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Romex product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Romex reserves the right to change the properties of its products without notice. Contact with Romex North America should take place prior to each use of any Romex product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Material Safety Data Sheet that are available at www.romexcanada.com.