



PACTOTop ESU 20

Epoxy Self-Smoothing Underlay and Floor Levelling Compound

DESCRIPTION

PACTOTop ESU 20 is a high strength, self smoothing epoxy floor leveling and underlay system designed to provide self-smoothing sound surface of 5mm to 20mm thickness in a single layer. It consists of special resins and graded aggregates formulated to withstand chemical attack and impact shock. The product is supplied as a three component system.

TYPICAL USES

PACTOTop ESU 20 can be used as underlayment and leveling floors in pharmaceutical plants, laboratories, heavy mechanical industry, workshops, dairies, kitchens, showrooms, petochemical plants, paper mills, etc. before application of other PAC Technologies PU and epoxy systems such as PACTOTop 125 SB, 510 SFB, SFE2/4, ES, etc. Pigmented version can be used as final surface without any topping.

ADVANTAGES

- Economical & cost effective
- Quick and easy to apply
- High strength
- Excellent bond strength to concrete and resin based coatings.
- Excellent impact, wear and abrasion resistance
- Seamless

TECHNICAL DATA

Property	Test Method	Value
Component	-	Three: Part A - Base Part B - Hardener Part C - Filler
Mixed Form	-	Viscous Liquid
Colour	-	Grey, Beige (Other colours available on request)
Pot Life	-	30 -45 mins
Full Cure	-	7 days
Bond Strength	ASTM D54541	> 2 N/mm ²
Flexural Strength	BS 6319-3	25 N/mm ²
Compressive Strength	BS 6319-2	80 N/mm ²
Tensile Strength	BS 6319-7	15 N/mm ²
Application Temperature	-	+5°C to 40°C
Service Temperature	-	+5°C to 70°C
Chemical Resistance	ASTM D543	Resistant to various chemicals like mild acids, alkalis, fuels, grease, petrol, etc.

Surface Preparation

Surfaces to receive **PACTOTop ESU 20** should be prepared with heavy shot blasting, scarifying or other suitable means to create a keyed surface and remove top laitance. Surface should be free from curing compounds, bond breaking coatings, oil, grease, and other contamination. Weak or loose concrete should be removed completely until a sound substrate is obtained and repaired with **PACTORep/PACTOTop** range of repair products. Any minor imperfections, pinholes etc. should be repaired using **PACTOTop EBM 200**.

On completion of shot blasting or grinding the floor should be vacuum cleaned. Substrate should not have moisture content more than 5%. Expansion, control and isolation joints in concrete should be carried through **PACTOTop ESU 20** and filled with a suitable sealant from the **PACTOTop Seal** range.

Priming

Primer is not necessary. Extremely porous substrates may be treated with primer. Such prepared surfaces should be primed with **PACTOTop Primer SB** or **SF**. Primer should be brushed into the surface using a stiff brush or roller and allowed to dry before the application of **PACTOTop ESU 20**. In case of dry patches, second coat of primer is recommended. Allow the first coat to dry before applying the subsequent coate. If the surface is damp, it is preferred to use **PACTOTop moisture barrier** as primer coat which cures with the moisture to form a tough membrane and will not adversely affect the top coat.

Mixing

Stir the base and hardener components separately. Mix hardener component into based component thoroughly with a slow speed drill attached with paddle for at one minute. Add entire filler component slowly and continue mixing for two to get uniform colour and consistency. Scrape the sides, edges and bottom of the minutes least mixing container using a spatula and continue mixing further for two minutes.



For large areas, professional pan type screed mixer is preferred. Mix sufficient quantity of material that can be applied within the pot life of the product.

APPLICATION

Mixed **PACTOTop ESU 20** is spread on the prepared surface using serrated trowel to achieve the desired thickness. While the material is fluid, spike rollers are used to remove any entrapped air from the system and achieve a smooth and glossy finish. Spike rolling can continue until the material reaches gel properties. Prolonged rolling will lead to roller marks appearing on the finished surface. Always wear spike shoes when applying the product.

EQUIPMENT CLEANING

Clean all equipments and tools with PAC Cleaner immediately after use.

PACKAGING

10 ltr. and 20 ltr. set

COVERAGE

2m²/set of 20 ltr. at 10mm thickness. Coverage depends on porosity and texture of substrate.

LIMITATIONS

PACTOTop ESU 20 is not suitable for application on surfaces known to or are likely to suffer from rising dampness or have a relative humidity greater than 75%. Should not be applied on PVC tiles or sheet.

STORAGE AND SHELF LIFE

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.

HEALTH AND SAFETY

- PPE's** Gloves, goggles & suitable mask must be worn.
- Precautions** Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately.
- Hazard** Regarded as non-hazardous for transportation.
- Disposal** Do not reuse containers. To be disposed off as per local rules and regulations.
- Additional Information** Refer to MSDS. Available on request.

TECHNICAL SERVICE

PAC Technologies technical services are available on request for on site support to assist in the correct use of its products.



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