Neodur® FT Putty

Fast-curing aliphatic polyaspartic polyurea putty

Description

Two-component, fast-curing aliphatic polyaspartic polyurea putty, for sealing, bonding, fixing, leveling and other repairing applications, on floors and walls.

Fields of application

- Fast-drying leveling, smoothing and repairing of floors that are to be coated with epoxy, polyurethane or polyaspartic systems. Ideal solution for repairs prior to the fast-drying polyurea **Neodur® Fast Track** systems, facilitating the full application and completion of the project in one day
- Repairing applications on floors and walls that require mechanical and chemical resistance, as well as impermeability to water
- Bonding of building elements (concrete, metal, wood, ceramics, etc.)

Properties - Advantages

- Fast-drying – May be overcoated in 2 hours, enabling the quick application of the first layer of the coating system that follows
- Excellent resistance to UV radiation
- Consists of pure resins and selected hardeners, free of solvents, extenders or fillers
- Exhibits strong bonding ability
- May also be applied on vertical surfaces
- Due to its semi-transparent appearance and its resistance to the sun, it may as well be overcoated by transparent coatings, such as the elastic aliphatic polyurea varnish **Neodur® FT Clear**

Appearance (cured)

Transparent – milky white

Packing

Set (A+B) of 1kg

Technical charasteristics	
Mixing ratio A:B (by weight)	100:62
Density (EN ISO 2811-1)	1,09kg/L (±0,05)
Solid content by weight	100%
Solid content by volume	100%
Adhesion strength (EN 13892-8)	≥2,5N/mm^2

Resistance to temperatures (dry loading)	-30°C min. / +80°C max.
Maximum application thickness per layer	3cm
Consumption: ~1,1kg/m^2 per mm of thickness	

Application conditions

Substrate moisture content	<4%
Relative air humidity (RH)	<65%
Application temperature (ambient - substrate)	+5°C min. / +35°C max.

Curing details

Pot life (+25°C, RH 50%)	10 minutes
Drying time (+25°C, RH 50%)	2 hours
Full hardening	~ 24 hours
** Low temperatures during application and/or curing prolong the above times, while high temperatures and high humidity reduce them*	

Appropriate primers on cementitious substrate

	Primer	**Description - Details**
Solvent-based	**Neodur® Fast Track PR**	*Fast-drying*, two-component, solvent-based, hybrid polyurea – polyureathane primer
	Epoxol® Primer	Two-component solvent-based epoxy primer
Water-based	**Acqua Primer**	Two-component water-based epoxy primer
Solvent-free	**Neodur® Primer SF**	*Fast-drying,* two-component, solvent-free, polyurea – polyurethane hybrid primer
	Epoxol® Primer SF	Two-component, solvent-free epoxy primer for flooring applications
	Epoxol® Primer SF-P	Two-component, solvent-free epoxy primer, ideal in cases of substrates with increased porosity
	Neopox® Primer WS	Two-component, solvent-free epoxy primer for wet surfaces (without ponding water or rising moisture)
	Neopox® Primer AY	Two-component, solvent-free anti-osmotic epoxy primer, for floors with rising moisture

Instructions for use

Substrate preparation

The substrate must be stable, clean, dry & protected from rising moisture, as well as free of dust, oil, grease, dirt and any loose or poorly adhering material. Depending on the substrate, proper mechanical preparation may be required to smooth out the irregularities, create an open-textured surface, and ensure optimum adhesion. In the case of non-porous and glossy surfaces, sanding improves the final result. If needed, cleaning of the surfaces, that are to be bonded, may be done with solvent **Neotex® 1021** or **Neotex® PU 0413**.

Priming

For the stabilization of the substrate and sealing of pores, as well as for creating the optimum conditions for stronger adhesion of **Neodur® FT Putty**, it is recommended to apply the fast-drying hybrid polyurea-polyurethane primer **Neodur® Fast Track PR** or **Neodur® Primer SF** or an alternative **NEOTEX®** primer (see table), depending on the substrate and its condition. In cases of substrates with increased porosity, an additional priming layer may be required.

Application

The two components A & B are mixed in the predetermined ratio (100A : 62B) with a suitable hand tool, until the mixture become homogenous. The mixture is then left for just 1 minute and spread immediately on the application surface, in order to avoid its hardening before it has been applied. **Neodur® FT Putty** is applied by smooth trowel or construction spatula, pressing it onto the surface to fill the gaps. The material may be sanded after ~2 hours and then overcoated by a compatible coating (e.g. **Neodur® Fast Track)** or self-levelling system (e.g. **Neodur® Fast Track SF**)

Special notes

- **Neodur® FT Putty** should not be applied under wet conditions, or if wet conditions are expected to prevail during the application or the curing period of the product.
- Due to the short time of workability, it is advisable to mix only as much material as may be possibly applied within this time frame. Especially with regard to the B component of the system, if the can is opened it can be cured with the moisture of the atmosphere, therefore it should be mixed and used immediately. The remainder of the can should be quickly sealed tightly.
- It is advisable that the exposure of the product to sunlight is avoided before or during the application, since the development of high temperatures may lead to faster curing

Appearance (cured)	Transparent – milky white
Packing	Set (A+B) of 1kg in metal cans
Cleaning of tools – Stains removal	By **Neotex® 1021** or **Neotex® PU 0413** immediately after application. In case of hardened stains, by mechanical means
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AgSB: 350g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <350g/l

UFI code	*Component A:* YJ40-20UF-400D-W5NH *Component B:* UN40-K0HU-E00V-JH7K
Storage stability	1 year, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight. Component B must be stored in an absolutely dry place protected from frost and humidity. In case of contact with ambient moisture it can be polymerized into the container.

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