ADCO Plastrep 321 defines a selection of premixed dry cementitious-based, shrinkage-compensated, micro fibre-reinforced plaster / mortars incorporating speciality chemistry for superior rheology and strength development to yield durable trowel-on repair and levelling and smoothing wall finishes.

The product is supplied as dry premixed powder and requires the addition of mixing water / mixing liquid prior to application. Depending on the application, primer such as ADCObond 239, bonding slurry such as ADCO Bonding 271T or ADCOpoxy 612, wet-to-dry structural epoxy adhesive, may be required.

ADCO Plastrep 321 is suitable for installation from 3 to 10 mm in one sequence, thicknesses up to ~35 mm are constructed in layered trowel-on applications (see text below).

ADCO Plastrep 321 TS is a specific product in this range for thin section applications up to 4 mm.

USES
ADCO Plastrep 321 products find a wide range of applications, including:

- trowel-on concrete repairs to honey-combing areas
- trowel-on corrections to concrete column or beam edges
- Filling of blow holes in precast or off-shutter concrete elements
- levelling of concrete or plastered vertical or over-head surfaces
- structural plastering as underlayment for ADCO Poolplast 322
- structural plaster to squash court walls where the suction effect of the impacting ball is withstood by the product

INSTALLATION
Substrate:
The substrate to receive ADCO Plastrep 321 needs to be structurally sound. Before installation commences, the prepared clean surface shall be dampened using clean water. Friable surfaces may require pre-treatments in the form of primer systems – technical advice is available on the products from our ADCO range of construction chemicals.

Bonding and Application:
ADCO Plastrep 321 is formulated to render superior bond to prepared concrete and plaster surfaces. For special applications, primers are offered and / or liquid components that are added to the mixing water. ADCObond 239 is recommended as primer onto the damp surface; maintaining a wet edge, the ADCO Colplas Stucco 341 is applied onto the primer in a continuous operation.

For standard installations, ADCO Plastrep 321 is mixed with clean water using a slow-speed mechanical stirrer prior to installation. The entire bag of powder is mixed per batch to a smooth lump-free trowelable consistency. Install in layers of thickness not exceeding 15 mm per application. Where thicker installations are planned, finish the previous layer by woodfloat, and apply next consecutive layer after 3 – 4 hours.

On completion, maintain standard good practice protection and curing of the new surface. Remembering that ADCO Plastrep 321 offers accelerated setting and strength development, the work shall be planned carefully.

Properties:
ADCO Plastrep 321 will develop a compressive strength of 35 – 40 MPa on full cure.

Mixed product has a pot life of 15 – 20 minutes. Once non-applied material has stiffened, do not re-mix but discard.

Packaging and Yield:
ADCO Plastrep 321 is supplied in 20 kg bags. When mixed, a 20 kg bag yields ~10.5 L of product ready for installation.

SAFETY
ADCO Plastrep 321 is not considered toxic or dangerous; however standard industrial precautions apply such as protective clothing, gloves and eye goggles. Cementicious-based products are alkaline and hence may cause irritation to the skin and eyes. Remember : Keep out of reach of children, handle responsibly and consider the environment.

TECHNICAL SUPPORT
Detailed method statements for various grouting applications are available on request.

UPDATE
May 2017.
This supercedes all previous documentation.